

1918

Washington University School of Medicine bulletin, 1918

Follow this and additional works at: http://digitalcommons.wustl.edu/med_bulletins

Recommended Citation

Washington University School of Medicine bulletin, 1918. Central Administration, Publications. Bernard Becker Medical Library Archives. Washington University School of Medicine, Saint Louis, Missouri. http://digitalcommons.wustl.edu/med_bulletins/20

This Article is brought to you for free and open access by the Washington University Publications at Digital Commons@Becker. It has been accepted for inclusion in Washington University School of Medicine Bulletins by an authorized administrator of Digital Commons@Becker. For more information, please contact engeszer@wustl.edu.

BULLETIN
OF
WASHINGTON UNIVERSITY
ST. LOUIS



TWENTY-NINTH ANNUAL
CATALOGUE
OF THE
MEDICAL SCHOOL

MARCH, 1918

PUBLICATIONS OF WASHINGTON UNIVERSITY
SERIES II VOLUME XVI NUMBER V

PUBLICATIONS OF WASHINGTON UNIVERSITY

Series I. **THE WASHINGTON UNIVERSITY RECORD.** This series is issued monthly from October to May, and is intended for the entire University constituency: faculties, alumni, students, and friends of the institution generally. It contains a résumé of the principal activities of the University for the period covered, and announcements of important future events. Each number contains, besides, one or more articles of an untechnical character on literary or scientific subjects. One issue (Annual Review) embodies a full review of the academic year, with the Chancellor's Report, abstracts of University legislation, a list of the writings of members of the Faculty, and other matters of University interest. The Record will be mailed regularly, upon request, free of charge.

Series II. **THE CATALOGUES.** This series includes the Annual Catalogue of the University and the Catalogue of the College, the Schools of Engineering and Architecture, the School of Commerce and Finance, the Henry Shaw School of Botany, the Law School, the Dental School, the Medical School, and the School of Fine Arts.

Series III. **THE MEDICAL BULLETIN.** This publication consists of reprints of papers by members of the Medical School Faculty, and the Proceedings of the Washington University Medical Society.

Series IV. **WASHINGTON UNIVERSITY STUDIES.** This series contains technical articles and monographs of scholarly import. Two numbers are devoted to literature, linguistics, philosophy, history, and the social sciences; two to contributions of scientific and technological character.

Series V. **WASHINGTON UNIVERSITY DOCTORAL DISSERTATIONS.** This series contains dissertations accepted by the Faculty of Arts and Sciences in partial fulfilment of the requirements for the degree of Doctor of Philosophy.

BOARD OF PUBLICATION

Otto Heller, Ph.D.	Chairman, General Editor
Archer Taylor, Ph.D.	Editor of the Record
William Roy Mackenzie, Ph.D.	} Editors of the Catalogues
William Alexander Robinson, Ph.D.	
Robert James Terry, M.D.	Editor of the Medical Bulletin
Otto Heller, Ph.D.	} Editors of the Studies
Winthrop Holt Chenery, Ph.D.	
Benjamin Minge Duggar, Ph.D.	
LeRoy McMaster, Ph.D.	

Address all communications regarding publications to the Secretary of the Board of Publication, Washington University, St. Louis, Mo.

PRIVATE PAVILION

SURGICAL WARDS

THE BARNES HOSPITAL—ADMINISTRATION BUILDING

MEDICAL WARDS

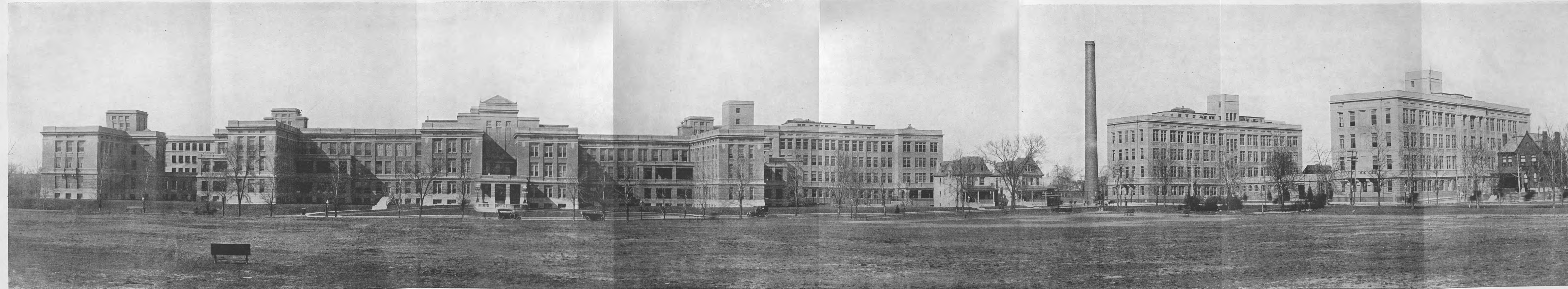
BUILDING FOR DISPENSARY, MEDICAL, PATHOLOGICAL
AND BACTERIOLOGICAL LABORATORIES

HOSPITAL FOR COLORED PATIENTS
(TEMPORARY)

POWER PLANT

NORTH LABORATORY BUILDING
ADMINISTRATION, LIBRARY, EXPERIMENTAL SURGERY,
COMPARATIVE PATHOLOGY, ANATOMY

SOUTH LABORATORY BUILDING
PHYSIOLOGY, PHARMACOLOGY, BIOLOGICAL CHEMISTRY



THE WASHINGTON UNIVERSITY MEDICAL SCHOOL AND AFFILIATED HOSPITALS

BULLETIN
OF
WASHINGTON UNIVERSITY
ST. LOUIS



TWENTY-NINTH ANNUAL
CATALOGUE
of the
MEDICAL SCHOOL

MARCH, 1918

PUBLICATIONS OF WASHINGTON UNIVERSITY

SERIES II

VOLUME XVI

NUMBER V

Published monthly, December to July, inclusive, by Washington University, St. Louis, Mo.

Entered as Second-Class Matter in the Post-Office at St. Louis, Mo.

Ex

Acc

Ho

Fir

Chr

Sec

Hol

Sec

Thi

Hol

Uni

Thi

Fin

Exa

Com

CALENDAR

1918-19

Examinations for Advanced Standing and Special Examinations,
Monday, Tuesday and Wednesday, September 23, 24, and 25,
1918.

Academic Year (First Trimester) begins Thursday, September 26,
1918.

Holiday, Thanksgiving Day, Thursday, November 28, 1918.

First Trimester ends Saturday, December 21, 1918.

Christmas Recess, Monday, December 23, 1918, to Wednesday,
January 1, 1919, inclusive.

Second Trimester begins Thursday, January 2, 1919.

Holiday, Washington's Birthday, Saturday, February 22, 1919.

Second Trimester ends Saturday, March 15, 1919.

Third Trimester begins Monday, March 17, 1919.

Holiday, Good Friday, April 18, and Saturday, April 19, 1919.

University Holiday, Friday, May 9, 1919.

Third Trimester ends Saturday, May 31, 1919.

Final Examinations begin Monday, June 2, 1919.

Examinations for Entrance and for Advanced Standing, Monday
and Tuesday, June 9 and 10, 1919.

Commencement, Thursday, June 12, 1919.

CALENDAR

1918

JANUARY							FEBRUARY							MARCH							APRIL						
S	M	T	W	T	F	S	S	M	T	W	T	F	S	S	M	T	W	T	F	S	S	M	T	W	T	F	S
..	..	1	2	3	4	5	..	..	..	..	..	1	2	..	..	..	..	..	1	2	..	1	2	3	4	5	6
6	7	8	9	10	11	12	3	4	5	6	7	8	9	3	4	5	6	7	8	9	7	8	9	10	11	12	13
13	14	15	16	17	18	19	10	11	12	13	14	15	16	10	11	12	13	14	15	16	14	15	16	17	18	19	20
20	21	22	23	24	25	26	17	18	19	20	21	22	23	17	18	19	20	21	22	23	21	22	23	24	25	26	27
27	28	29	30	31	..	..	24	25	26	27	28	..	..	24	25	26	27	28	29	30	28	29	30	..	..	..	..
..	..	..	..	..	..	..	..	..	..	..	..	..	..	31	..	..	..	..	..	..	..	..	..	..	..	..	..

MAY							JUNE							JULY							AUGUST						
S	M	T	W	T	F	S	S	M	T	W	T	F	S	S	M	T	W	T	F	S	S	M	T	W	T	F	S
..	..	..	1	2	3	4	..	..	..	..	..	..	1	..	1	2	3	4	5	6	..	..	..	..	1	2	3
5	6	7	8	9	10	11	2	3	4	5	6	7	8	7	8	9	10	11	12	13	4	5	6	7	8	9	10
12	13	14	15	16	17	18	9	10	11	12	13	14	15	14	15	16	17	18	19	20	11	12	13	14	15	16	17
19	20	21	22	23	24	25	16	17	18	19	20	21	22	21	22	23	24	25	26	27	18	19	20	21	22	23	24
26	27	28	29	30	31	..	23	24	25	26	27	28	29	28	29	30	31	..	..	..	25	26	27	28	29	30	31
..	..	..	..	..	..	..	30	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..

SEPTEMBER							OCTOBER							NOVEMBER							DECEMBER						
S	M	T	W	T	F	S	S	M	T	W	T	F	S	S	M	T	W	T	F	S	S	M	T	W	T	F	S
1	2	3	4	5	6	7	..	1	2	3	4	5	..	..	..	..	1	2	..	1	2	3	4	5	6	7	8
8	9	10	11	12	13	14	6	7	8	9	10	11	12	3	4	5	6	7	8	9	8	9	10	11	12	13	14
15	16	17	18	19	20	21	13	14	15	16	17	18	19	10	11	12	13	14	15	16	15	16	17	18	19	20	21
22	23	24	25	26	27	28	20	21	22	23	24	25	26	17	18	19	20	21	22	23	22	23	24	25	26	27	28
29	30	..	..	..	..	..	27	28	29	30	31	..	..	24	25	26	27	28	29	30	29	30	31	..	..	..	..
..

1919

JANUARY							FEBRUARY							MARCH							APRIL							
S	M	T	W	T	F	S	S	M	T	W	T	F	S	S	M	T	W	T	F	S	S	M	T	W	T	F	S	
..	1	2	3	4	..	2	3	4	5	6	7	8	..	2	3	4	5	6	7	8	..	1	2	3	4	5
5	6	7	8	9	10	11	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	
12	13	14	15	16	17	18	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	28	29	
19	20	21	22	23	24	25	16	17	18	19	20	21	22	23	24	25	26	27	28	29	30	31	..	..	..	..	..
26	27	28	29	30	31	..	23	24	25	26	27	28	..	23	24	25	26	27	28	29	30	31	..	..	..	..	..
..	
MAY							JUNE							JULY							AUGUST							
S	M	T	W	T	F	S	S	M	T	W	T	F	S	S	M	T	W	T	F	S	S	M	T	W	T	F	S	
..	..	..	..	1	2	3	1	2	3	4	5	6	7	..	1	2	3	4	5	..	..	..	..	1	2	..	..
4	5	6	7	8	9	10	8	9	10	11	12	13	14	6	7	8	9	10	11	12	3	4	5	6	7	8	9	
11	12	13	14	15	16	17	15	16	17	18	19	20	21	13	14	15	16	17	18	19	10	11	12	13	14	15	16	
18	19	20	21	22	23	24	22	23	24	25	26	27	28	20	21	22	23	24	25	26	17	18	19	20	21	22	23	
25	26	27	28	29	30	31	29	30	..	..	..	..	..	27	28	29	30	31	..	..	24	25	26	27	28	29	30
..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	31	..	..	..	..	..	..
SEPTEMBER							OCTOBER							NOVEMBER							DECEMBER							
S	M	T	W	T	F	S	S	M	T	W	T	F	S	S	M	T	W	T	F	S	S	M	T	W	T	F	S	
..	1	2	3	4	5	6	..	1	2	3	4	..	..	..	..	..	1	..	1	..	1	2	3	4	5	6	..
7	8	9	10	11	12	13	5	6	7	8	9	10	11	2	3	4	5	6	7	8	7	8	9	10	11	12	13	
14	15	16	17	18	19	20	12	13	14	15	16	17	18	9	10	11	12	13	14	15	14	15	16	17	18	19	20	
21	22	23	24	25	26	27	19	20	21	22	23	24	25	16	17	18	19	20	21	22	21	22	23	24	25	26	27	
28	29	30	..	..	..	..	26	27	28	29	30	31	..	23	24	25	26	27	28	29	28	29	30	31	..	..	..
..	

THE CORPORATION

President

ROBERT SOMERS BROOKINGS

First Vice-President

WILLIAM KEENEY BIXBY

Second Vice-President

HENRY WARE ELIOT

Directors

HENRY WARE ELIOT

ROBERT SOMERS BROOKINGS

CHARLES NAGEL

GEORGE OLIVER CARPENTER

ISAAC HENRY LIONBERGER

ALFRED LEE SHAPLEIGH

DAVID ROWLAND FRANCIS

EDWARD MALLINCKRODT

JOHN FITZGERALD LEE

WILLIAM KEENEY BIXBY

ROBERT MCKITTRICK JONES

ROBERT HENRY STOCKTON

AUGUST ANHEUSER BUSCH

BENJAMIN GRATZ

Treasurer, and Secretary to the Corporation

LUDWIG KOTANY

Office in University Hall, Skinker road and Lindell boulevard

OFFICERS OF GOVERNMENT AND INSTRUCTION

FREDERIC ALDIN HALL, A.M., LITT. D., L. H. D., LL.D.
Chancellor of the University

A.B., Drury College, 1878, A.M., 1881, and Litt.D., 1901; L.H.D., Tufts College, 1912; LL.D., Washington University, 1913, and University of Missouri, 1917. Principal of Drury Academy, 1878-91; Goodell Professor of Greek, 1892-01, and Dean, 1898-01, Drury College; Collier Professor of Greek, Washington University, 1901-17; Acting Dean of the College, 1907-08; Dean of the College, 1912-13. Acting Chancellor, Washington University, 1918-17.

5846 Julian Avenue

PHILIP ANDERSON SHAFFER, PH.D. *Professor of Biological
Chemistry, and Dean*

A.B., West Virginia University, 1900; Ph.D., Harvard University, 1904. Assistant, Fellow, and Instructor in Chemical Pathology, Cornell University, 1904-10. Resident Assistant, Pathological Chemist, McLean Hospital, Waverley, Mass., 1900-03; Chemist to Huntington Fund for Cancer Research, 1906-10; Pathological Chemist and Head of Chemical Section of the Laboratory of Bellevue Hospital, 1909-10. *Chemist to the Barnes Hospital.*

Washington University Medical School

EDWARD WATTS SAUNDERS, M.D. *Professor Emeritus of Diseases
of Children and Clinical Midwifery*

M.D., University of Virginia, 1875. Professor of Diseases of Children and Clinical Midwifery, Missouri Medical College, 1891-99, and Washington University Medical School, 1899-1909. Member of the Medical Staff of Bethesda Hospital, Missouri Baptist Sanitarium, and St. Louis Maternity Hospital.

Lister Building

NORMAN BRUCE CARSON, M.D.... *Professor Emeritus of Surgery*

M.D., St. Louis Medical College, 1868. Assistant in Surgery, Adjunct Professor of the Principles and Practice of Surgery and of Clinical Surgery, St. Louis Medical College, 1881-99; Professor of Clinical Surgery, Medical Department of Washington University, 1899-1911. Surgeon in Chief, St. Louis Mullanphy Hospital.

Humboldt Building

ADOLF ALT, M.D.*Professor Emeritus of Ophthalmology*

M.D., Heidelberg, 1875; House Surgeon and Assistant Surgeon, New York Ophthalmic and Aural Institute, 1875-77. Member of the College of Physicians and Surgeons, Ontario, 1877; Lecturer on Histology of the Eye and Ear, New York Ophthalmic and Aural Institute, 1876-77; Lecturer on Ophthalmology, Trinity Medical School, Toronto, 1878-80; Professor of Ophthalmology and Otology, Beaumont Hospital Medical College, 1886-1901; Professor of Ophthalmology, Marion Sims-Beaumont School of Medicine, 1901-03, and St. Louis University School of Medicine, 1903-10. Consulting Oculist to City Hospital, St. Louis, 1881-83. Editor, *American Journal of Ophthalmology*, 1884-1918.

Metropolitan Building

JOHN BLASDEL SHAPLEIGH, M.D. . . .*Clinical Professor of Otology*

A.B., Washington University, 1878; M.D., St. Louis Medical College, 1881; Interne, St. Louis City Hospital, 1881-82; Interne, Female Hospital, 1882-83. Lecturer on Diseases of the Ear, 1886-90, and Clinical Professor, Diseases of the Ear, 1890-95, St. Louis Medical College; Dean of the Medical Faculty, Medical Department of Washington University, 1901-02; Professor of Otology, St. Louis Medical College and Washington University Medical School, 1895-1912. Member of the Hospital Board of the City of St. Louis, 1910-12; Member of the Medical Staff of St. Luke's Hospital, and Barnard Free Skin and Cancer Hospital. *Otologist to the St. Louis Children's Hospital, the Barnes Hospital and the Washington University Dispensary.*

Humboldt Building

GEORGE DOCK, M.D., Sc.D.*Professor of Medicine*

M.D., University of Pennsylvania, 1884; A.M., (hon.), Harvard University, 1895; Sc.D. (hon.), University of Pennsylvania, 1904; Interne, St. Mary's Hospital, Philadelphia, 1884-85. Assistant in Clinical Pathology and Physician to Medical Dispensary, University of Pennsylvania, 1887-88; Physician to John Sealy Hospital, Galveston, 1888-91; Professor of Pathology and Clinical Medicine, Texas Medical College and Hospital, 1888-91; Physician to University Hospital, 1891-1908, and Professor of Medicine, 1891-1908, University of Michigan; Physician to Charity Hospital, New Orleans, 1908-10; Professor of Medicine, Tulane University, 1908-10. Acting Assistant Surgeon, U.S.A., 1898. Dean of the Medical Faculty, 1910-12. Co-editor, *Archives of Internal Medicine*. *Consulting Physician, St. Louis City Hospital, and Physician in Chief to the Barnes Hospital.*

4 N. Kingshighway Boulevard

JOSEPH ERLANGER, M.D.....*Professor of Physiology*

B.S., University of California, 1895; M.D., Johns Hopkins University, 1899; Resident House Officer, Johns Hopkins Hospital, 1899-1900. Fellow in Pathology, Assistant, Instructor, Associate, and Associate Professor of Physiology, Johns Hopkins University, 1900-06; Professor of Physiology, University of Wisconsin, 1906-10. Member of the Editorial Committee of the American Journal of Physiology. *Physiologist to the Barnes Hospital.*

5127 Waterman Avenue

EUGENE LINDSAY OPIE, M.D.....*Professor of Pathology*

A.B., Johns Hopkins University, 1893, and M.D., 1897; Resident House Officer, Johns Hopkins Hospital, 1897-98, and Assistant Resident Pathologist, 1900-02. Fellow, Assistant, Instructor and Associate in Pathology, Johns Hopkins Medical School, 1897-1904; Associate and Member of the Rockefeller Institute for Medical Research, New York, 1904-10; Pathologist to the Presbyterian Hospital of New York, 1907-10. Dean of the Medical Faculty, 1912-15. Co-editor, *Journal of Experimental Medicine*, 1904-10. *Pathologist to the Barnes Hospital and the St. Louis Children's Hospital.*

427 Lake Avenue

ROBERT JAMES TERRY, M.D.....*Professor of Anatomy*

M.D., Missouri Medical College, 1895; A.B., Washington University, 1901; Interne, St. Louis Female Hospital, 1896. Demonstrator in Anatomy, Missouri Medical College, 1896-99; Assistant Professor and Professor of Anatomy, Washington University, 1899-1901; Austin Teaching Fellow in Histology and Embryology, Harvard University, 1906-07. Editor of the *Bulletin of the Washington University Medical School.*

5315 Delmar Avenue

FRED TOWSLEY MURPHY, M.D.....*Professor of Surgery*

A.B., Yale University, 1897, and A.M., (hon.), 1914; M.D., Harvard University, 1901; Interne and Graduate Assistant, Massachusetts General Hospital, 1901-02. Assistant in Anatomy and Austin Teaching Fellow in Surgery, 1903-05, and Assistant in Surgery, 1910-11, Harvard Medical School. Assistant Surgeon, Infants' Hospital, Boston, 1904-08; Surgeon to Out Patients, Massachusetts General Hospital, 1907-11; Visiting Surgeon to Clinic, Harvard Medical School, 1909-11. *Consulting Surgeon, St. Louis City Hospital, Surgeon in Chief to the Barnes Hospital and the St. Louis Children's Hospital.*

5738 Cates Avenue

LEO LOEB, M.D......*Professor of Comparative Pathology*

M.D., Zurich, 1896. Adjunct Professor of Pathology, College of Physicians and Surgeons, Chicago, 1900-01; Experimental Pathologist, New York State Pathological Laboratory, 1902; Research Fellow, McGill University, 1903; Demonstrator, 1903-04, and Assistant Professor of Experimental Pathology in Charge of Laboratory, 1904-10, University of Pennsylvania; Director Department of Pathology, Barnard Free Skin and Cancer Hospital, St. Louis, 1910-15. Member of the Editorial Board of the *Folia Haematologica*, 1908-09, of the *Folia Serologica*, 1908-11, and of the *Journal of Cancer Research*.

719 Westgate Avenue

WILLIAMS MCKIM MARRIOTT,* M.D.....*Professor of Pediatrics*

B.S., University of North Carolina, 1904; M.D., Cornell University, 1910. Assistant in Chemistry, University of North Carolina, 1903-04; Assistant in Bio-chemistry, Cornell University Medical School, 1904-06; Instructor in Biological Chemistry, Washington University Medical School, 1910-14; Instructor and Associate in Pediatrics, Johns Hopkins University, 1914-17; Associate Pediatrician, the Johns Hopkins Hospital, 1915-17. *Physician in Chief to the St. Louis Children's Hospital and Pediatrician in Chief to the Washington University Dispensary.*

BENJAMIN MINGE DUGGAR, PH.D. *Acting Professor of Biological Chemistry*

B.S., Mississippi Agricultural and Mechanical College, 1891; M.S., Alabama Polytechnic Institute, 1892; A.B., Harvard University, 1894, A.M., 1895; Ph.D., Cornell University, 1898. Assistant in Botany, Alabama Polytechnic Institute, 1891-92; Assistant Cryptogamic Botanist, Instructor, and Assistant Professor of Botany, Cornell University, 1896-1901; Professor of Botany, University of Missouri, 1902-07; Professor of Plant Physiology, Cornell University, 1908-12; Professor of Plant Physiology, Washington University, 1912-. Plant Physiologist, U. S. Department of Agriculture, 1901-02; Scientific Assistant, Illinois State Laboratory of Natural History, 1905-06. *Physiologist in Charge of Graduate Laboratory, Missouri Botanical Garden.*

4327 Washington Boulevard

LOUIS HERBERT BURLINGHAM, M.D. *Lecturer on Hospital Administration*

A.B., Yale University, 1902; M.D., Johns Hopkins University, 1906; Interne, Massachusetts General Hospital, 1906-07. Assistant Resident Physician and Assistant Administrator, Massachusetts General Hospital,

* Absent on leave.

1907-12; Assistant Superintendent, Peter Bent Brigham Hospital, 1912-17. *Superintendent of the Barnes Hospital and of the St. Louis Children's Hospital.*

Barnes Hospital

HENRY SCHWARZ, M.D......*Clinical Professor of Obstetrics*

M.D., St. Louis Medical College, 1879, and University of Giessen, 1880; Resident Physician, Recurrent Fever Hospital, Giessen, 1879-80; Assistant Physician and Tutor, Department of Obstetrics, University of Giessen, 1880-81; and University of Heidelberg, 1881-83. Clinical Lecturer on Gynecology, 1886-89, and Clinical Professor of Gynecology, 1889-99, St. Louis Medical College; Professor of Obstetrics, 1899-1908, and Professor of Obstetrics and Gynecology, 1907-12, Washington University Medical School. *Consulting Surgeon, St. Louis City Hospital and Obstetrician in Chief to the Barnes Hospital.*

440 N. Newstead Avenue

PAUL YOER TUPPER, M.D......*Clinical Professor of Surgery*

M.D., Central University, 1880; Interne, City Hospital and Forest Hill Lying-in Hospital, Louisville, 1880-81. Visiting Surgeon, St. Luke's Hospital; Consulting Surgeon, Bethesda Hospital, St. John's Hospital, and the Jewish Hospital.

Wall Building

FRANCIS RHODES FRY, M.D......*Clinical Professor of Neurology*

A.B., Ohio Wesleyan University, 1877, and A.M., 1880; M.D., St. Louis Medical College, 1879; Interne, St. Louis City Hospital, 1879-80. Assistant Demonstrator and Demonstrator of Anatomy, 1881-88, Clinical Lecturer on Diseases of the Nervous System, 1887-90, Professor of Anatomy, 1888-90, and Professor of Diseases of the Nervous System, 1890-99, St. Louis Medical College. Member of Staff of St. Luke's Hospital, the Barnard Free Skin and Cancer Hospital, and of the Consulting Staff of the Jewish Hospital.

Humboldt Building

HARVEY GILMER MUDD, M.D......*Clinical Professor of Surgery*

M.D., St. Louis Medical College, 1881; Interne, St. Louis City Hospital, 1881-82; Interne, Female Hospital, 1881-82. Demonstrator of Anatomy, Lecturer on Osteology and Professor of Osteology and Regional Anatomy, 1888-99, Professor of Fractures and Dislocations and Clinical Surgery, 1899, St. Louis Medical College. Surgeon and Chief of Staff, St. Luke's Hospital; Surgeon to the Barnard Free Skin and Cancer Hospital.

Humboldt Building

GEORGE MARVINE TUTTLE, M.D. .*Clinical Professor of Pediatrics*

A.B., Columbia University, 1888, and M.D., 1891; Interne, St. Luke's Hospital, New York, and New York Nursery and Child's Hospital, 1892-94. Professor of Therapeutics, Washington University Medical School, 1899-1908. Attending Physician, Martha Parsons' Free Hospital for Children, 1894-1910; Chief of Staff, St. Louis Children's Hospital, 1910-12; Attending Physician, St. Luke's Hospital. *Consulting Physician to the St. Louis Children's Hospital.*

4917 Maryland Avenue

ELSWORTH STRIKER SMITH, M.D. .*Clinical Professor of Medicine*

A.B., St. Louis University, 1884, and A.M., 1888; M.D., St. Louis Medical College, 1887; Interne, Assistant Physician, and Assistant Superintendent, St. Louis City Hospital, 1887-90. Demonstrator in Anatomy, Instructor in Physical Diagnosis and Assistant Physician to the Medical Clinic, St. Louis Medical College, 1890-99. Physician, St. Luke's Hospital; Consulting Physician, Jewish Hospital, Barnard Free Skin and Cancer Hospital, Frisco Hospital and St. Louis Maternity Hospital; Physician in Chief to the St. Louis Mullanphy Hospital. *Assistant Physician to the Barnes Hospital.*

4502 Maryland Avenue

ARTHUR EUGENE EWING, M.D. .*Clinical Professor of Ophthalmology*

A.B., Dartmouth College, 1878; M.D., St. Louis Medical College, 1888; A.M., Washington University, 1912. Clinical Lecturer on Ophthalmology, St. Louis Medical College, 1895. Assistant in the Ophthalmic Clinic of St. Luke's Hospital, 1888-95. *Ophthalmologist to the Barnes Hospital and Chief of the Ophthalmological Clinic, Washington University Dispensary.*

5956 Cabanne Avenue

GREENFIELD SLUDER, M.D. .*Clinical Professor of Laryngology and Rhinology*

M.D., St. Louis Medical College, 1888; Interne, St. Louis City Hospital, 1888-92. Instructor in Urinology and in Clinical Medicine, 1891-98, and Lecturer on Laryngology, St. Louis Medical College, 1898-99, and Medical Department of Washington University, 1899-1905. Member of Staff of St. Luke's Hospital and Barnard Free Skin and Cancer Hospital. *Laryngologist to the St. Louis Children's Hospital, the Barnes Hospital, and the Washington University Dispensary.*

3542 Washington Avenue

MARTIN FEENEY ENGMAN, M.D. *Clinical Professor of Dermatology*

M.D., University of New York, 1891; Interne, New York Skin and Cancer Hospital and Gouverneur Hospital, New York, 1891-93. Lecturer on Dermatology, New York Post Graduate Medical School, 1894; Lecturer on Dermatology, St. Louis University, 1910-12. Assistant in Skin Department, Demilt Dispensary, and Vanderbilt Clinic, New York, 1894. Member of the Hospital Board, City of St. Louis, 1912; President of the Medical Board, Barnard Free Skin and Cancer Hospital. *Visiting Physician, St. Louis City Hospital, Dermatologist to the St. Louis Children's Hospital, and the Barnes Hospital, and Chief of the Dermatological Clinic, Washington University Dispensary.*

Wall Building

BORDEN SMITH VEEDER, M.D. . . . *Professor of Clinical Pediatrics*

M.D., University of Pennsylvania, 1907; Interne, University of Pennsylvania Hospital, 1907-08; Assistant Demonstrator in Pathology, University of Pennsylvania, 1909-11; Pathologist, St. Christopher's Hospital, Philadelphia, 1909-11; Assistant Pathologist, General Hospital, Philadelphia, 1909-11; Medical Director, Babies' Hospital, Philadelphia, 1911; Associate in and Associate Professor of Pediatrics, Washington University Medical School, 1911-17. *Consulting Physician, St. Louis City Hospital and Infectious Disease Hospital; Associate Physician, St. Louis Children's Hospital.*

Euclid Avenue and Kingshighway

GEORGE CANBY ROBINSON, M.D. *Associate Professor of Medicine and Acting Dean*

A.B., Johns Hopkins University, 1899, and M.D., 1903. Assistant Demonstrator of Anatomy, Cornell University, 1903-04; Resident Pathologist and Resident Physician, Pennsylvania Hospital, 1904-08; Director of the Pathological Laboratory, Presbyterian Hospital, Philadelphia, 1909-10; Resident Physician and Associate in Medicine, Hospital of the Rockefeller Institute, 1910-13. *Associate Physician to the Barnes Hospital and Chief of the Medical Clinic, Washington University Dispensary.*

4965 McPherson Avenue

ALBERT ERNEST TAUSSIG, M.D. *Associate Professor of Clinical Medicine*

A.B., Harvard University, 1891; M.D., St. Louis Medical College, 1894; Interne, St. Louis City Hospital, 1894-95. Professor of Physiology, 1909, Clinical Professor of Medicine, 1910-12, and Associate in Medicine, 1912-14,

Washington University Medical School. Physician to the Jewish Hospital. Editor of the Medical Bulletin, Washington University, 1904-08; Co-editor Interstate Medical Journal. *Visiting Physician, St. Louis City Hospital, and Assistant Physician to the Barnes Hospital.*

731 Metropolitan Building

ERNEST SACHS, M.D. *Associate Professor of Surgery*

A.B., Harvard University, 1900; M.D., Johns Hopkins University, 1904; Interne, Mt. Sinai Hospital, New York, 1904-07; Clinical Clerk, National Hospital, London, 1908. Associate in Surgery, Washington University Medical School, 1911-14. Attending Neurological Surgeon to Montefiore Home and Beth Israel Hospitals, and Adjunct Assistant Attending Surgeon to Bellevue Hospital, New York, 1909-11. *Consulting Surgeon to City Sanitarium; Assistant Surgeon to the St. Louis Children's Hospital; Associate Surgeon to the Barnes Hospital; Chief of the Surgical Clinic, Washington University Dispensary.*

97 Arundel Place

DENNIS EMERSON JACKSON, PH.D., M.D. *Associate Professor of Pharmacology*

A.B., Indiana University, 1905, A.M., 1906, and Ph.D., 1908; M.D., Rush Medical College, 1913. Assistant in Physiology, Indiana University, 1904-06; Assistant in Pharmacology and Physiological Chemistry, University of Chicago, 1906-07; Instructor in Pharmacology, 1907-08, and Assistant Professor of Pharmacology and Physiology, Indiana University, 1908-10; Associate in Pharmacology, Washington University Medical School, 1910-15. Associate Editor (Pharmacology), Journal of Laboratory and Clinical Medicine.

Euclid Avenue and Kingshighway

CHARLES HASKELL DANFORTH, PH.D. *Associate Professor of Anatomy*

A.B., Tufts College, 1908, and A.M., 1910; Ph.D., Washington University, 1912. Olmstead Fellow in Biology, 1908, and Instructor in Biology, 1910-11, Tufts College; Teaching Fellow in Anatomy, Harvard Medical School, 1910-11; Instructor and Associate in Anatomy, Washington University Medical School, 1908-16.

Euclid Avenue and Kingshighway

NATHANIEL ALLISON, M.D. *Associate Professor of Clinical Orthopedic Surgery*

M.D., Harvard University, 1901; Interne, Boston Children's Hospital, 1901-02; Assistant, Instructor, Associate, and Clinical Lecturer on Ortho-

pedic Surgery, Washington University Medical School, 1904-17; Orthopedic Surgeon to Martha Parsons Free Hospital for Children, 1903-09; Surgeon to St. Louis City Hospital, 1910-12; Orthopedic Surgeon to St. Luke's Hospital. Co-editor, American Journal of Orthopedic Surgery. *Associate Surgeon, St. Louis Children's Hospital, and Chief of the Orthopedic Clinic, Washington University Dispensary.*

Humboldt Building

ROBERT GESELL, M.D. *Associate Professor of Physiology*

A.B., University of Wisconsin, 1910; M.D., Washington University Medical School, 1914. Assistant in Zoölogy, University of Wisconsin, 1909-10; Assistant, Instructor and Associate in Physiology, Washington University Medical School, 1910-17.

Euclid Avenue and Kingshighway

SIDNEY ISAAC SCHWAB, M.D. *Associate Professor of Clinical Neurology*

M.D., Harvard University, 1896. Professor of Nervous and Mental Diseases, St. Louis University, 1904-12; Non-resident Lecturer on Nervous and Mental Diseases, University of Missouri School of Medicine, 1909-10; Associate in Neurology, Washington University Medical School, 1913-17. Visiting Neurologist to the St. Louis City Hospital and Sanitarium, 1909-13; Visiting Neurologist to the Jewish Hospital. *Neurologist to the Barnes Hospital and Chief of the Neurological Clinic, Washington University Dispensary.*

Humboldt Building

PHILIP CHARLES JEANS, M.D. . . *Associate Professor of Pediatrics*

A.B., University of Kansas, 1904; M.D., Johns Hopkins University, 1909; Interne, Garrett Hospital for Children, Baltimore, Hartford Hospital, Hartford, and Children's Hospital, Floating Hospital, and City Hospital, Boston, 1909-12. Resident Physician, St. Louis Children's Hospital, 1912-18. Student Instructor in Chemistry, University of Kansas, 1902-04; Assistant, Instructor, and Associate in Pediatrics, Washington University Medical School, 1913-17. *Visiting Physician, Infectious Disease Hospital, Assistant Physician, St. Louis Children's Hospital, and Chief of Pediatric Clinic, Washington University Dispensary.*

St. Louis Children's Hospital

MONTROSE THOMAS BURROWS, M.D. *Associate Professor of Pathology*

A.B., University of Kansas, 1905; M.D., Johns Hopkins University, 1909. Assistant Rockefeller Institute for Medical Research, 1909-11; Instructor

in Anatomy, Cornell University Medical College, 1911-15; Associate in Pathology, Johns Hopkins University, 1915-17. *Acting Pathologist to the Barnes Hospital and the St. Louis Children's Hospital.*

Tower Hall, Washington University

NOBLE PIERCE SHERWOOD, A.M. *Acting Associate Professor of Bacteriology*

B.S., University of Kansas, 1905; A.M., 1911. Instructor in and Assistant Professor of Bacteriology, 1910-16, Associate Professor of Bacteriology, 1916-, Acting Head of the Department of Bacteriology, 1917-18, University of Kansas.

Tower Hall, Washington University

HARRY STURGEON CROSSEN, M.D. *Associate in Clinical Gynecology*

M.D., Medical Department of Washington University, 1892; Interne, St. Louis City Hospital, 1892-95. Superintendent and Surgeon in Charge, Female Hospital, 1895-99; Member and Chairman of the Gynecological Staff of the St. Louis City Hospital, 1910-12; Gynecologist, St. Luke's Hospital, St. Louis Mullanphy Hospital, Missouri Baptist Sanitarium, and Bethesda Hospital. *Associate Gynecologist to the Barnes Hospital.*

Metropolitan Building

WILLARD BARTLETT, M.D. *Associate in Clinical Surgery*

A.B., Illinois College, 1892, and A.M., 1898; M.D., Marion Sims College of Medicine, 1895. Demonstrator of Pathological Anatomy, University of Berlin, 1896-97; Voluntary Assistant, University of Strassburg, 1897-98; Professor of Pathology, Marion Sims College of Medicine, 1898-1901; Demonstrator and Professor of Experimental Surgery, Washington University Medical School, 1901-12. Member and Chairman of Surgical Staff, St. Louis City Hospital, 1910-12.

Metropolitan Building

VILRAY PAPIN BLAIR, M.D. *Associate in Clinical Surgery*

A.M., Christian Brothers College, 1890; M.D., Medical Department of Washington University, 1893; Interne, St. Louis Mullanphy Hospital, 1893-95. Instructor in Practical Anatomy, Associate Professor of Anatomy and Clinical Professor of Surgery, Washington University Medical School, 1894-1912. Formerly Surgeon to St. Louis City Hospital and City Sanitarium; Visiting Surgeon to St. Luke's Hospital and St. Louis Maternity Hospital. *Assistant Surgeon to the St. Louis Children's Hospital and the Barnes Hospital.*

Metropolitan Building

MEYER WIENER, M.D. *Associate in Clinical Ophthalmology*

M.D., Missouri Medical College, 1896; Interne, St. Louis City Hospital, 1896-97. Member of Staff and Chief of Eye Clinic, Jewish Hospital; Member of Staff of Bethesda Hospital, City Hospital, St. Vincent's Asylum, and St. Louis Maternity Hospital. Former Editor of the *Annals of Ophthalmology*; Member of the Editorial Staff, *American Journal of Ophthalmology*. *Visiting Surgeon, St. Louis City Hospital; Surgeon to Out Patients, Washington University Dispensary, and Assistant Ophthalmologist to the Barnes Hospital.*

Carleton Building

GEORGE GELLHORN, M.D. *Associate in Clinical Gynecology*

M.D., University of Wurzburg, 1894. Assistant in Obstetrics, University of Jena, 1898, Assistant in Gynecology, Mackenrodt Hospital, Berlin, 1895-97, and University of Vienna, 1899; Instructor and Lecturer in Gynecology, Washington University Medical School, 1904-11. Gynecologist to St. Luke's Hospital, 1901; Gynecologist to Barnard Free Skin and Cancer Hospital, 1905; Visiting Gynecologist to St. Louis City Hospital, 1910; Consulting Obstetrician to St. Louis Maternity Hospital, 1912. *Visiting Surgeon, St. Louis City Hospital, and Assistant Gynecologist to the Barnes Hospital.*

Metropolitan Building

FRED JOSEPH TAUSSIG, M.D. *Associate in Clinical Gynecology*

A.B., Harvard University, 1893; M.D., St. Louis Medical College, 1898; Interne and Assistant Superintendent, Female Hospital, St. Louis, 1898-1901. Instructor and Lecturer in Gynecology, Washington University Medical School, 1906-09. Clinical Assistant, 1906-08, Surgeon to Out Patients, 1909-11, and Chief of Gynecological Out Patient Clinic, 1912-14, Washington University Hospital; Gynecologist, Barnard Free Skin and Cancer Hospital, St. Louis City Hospital, and City Sanitarium; Obstetrician, St. Louis Maternity Hospital. *Visiting Surgeon, St. Louis City Hospital, and Assistant Gynecologist to the Barnes Hospital.*

4506 Maryland Avenue

MALVERN BRYAN CLOPTON, M.D. *Associate in Clinical Surgery*

M.D., University of Virginia, 1897; Interne, Johns Hopkins Hospital, Baltimore, 1898-99. Instructor in Clinical Surgery, Washington University Medical School, 1906-10. Chief of Surgical Clinic, O'Fallon Dispensary, 1907-09; Visiting Surgeon, St. Luke's Hospital, 1900-13; Associate Surgeon St. Louis Mullanphy Hospital, 1907-15. *Associate Surgeon, St. Louis Children's Hospital, and Assistant Surgeon to the Barnes Hospital.*

Humboldt Building

FRANCIS MERRIMAN BARNES, JR., M.D. *Associate in Clinical Psychiatry*

A.B., Hamilton College, 1903, and A.M., 1906; M.D., Johns Hopkins University, 1907; Interne, Sheppard and Enoch Pratt Hospital for Nervous and Mental Diseases, 1907. Instructor in Neurology and Psychiatry, George Washington University, 1911-13; Assistant Professor of Nervous and Mental Diseases, St. Louis University, 1913-14. Assistant Physician and Director of Clinical Laboratory, Sheppard and Enoch Pratt Hospital, 1907-10; Interne, Junior Assistant, Assistant Physician, Senior Assistant Physician, and Clinical Director, 1910-13, Government Hospital for the Insane, Washington, D. C.; Neurologist, St. Mary's Hospital, St. Louis, 1913-; Medical Director, Glenwood Sanatorium, 1916-. *Visiting Physician, St. Louis City Hospital, Consulting Physician, City Sanitarium, and Physician to Out Patients, Washington University Dispensary.*

Humboldt Building

RALPH WALTER MILLS, M.D. *Associate in Clinical Medicine*

B.S., University of Illinois, 1899; M.D., Marion Sims Medical College, 1902; Interne, Alexian Brothers Hospital, St. Louis, 1902-03. Assistant in Pathology, 1904-05, and Instructor in Dietetics, 1908-14, Washington University Medical School. *Assistant Physician and Roentgenologist to the Barnes Hospital, and Physician to Out Patients, Washington University Dispensary.*

Wall Building

EDWIN A. BAUMGARTNER, PH.D. *Associate in Anatomy*

A.B., University of Kansas, 1910, and A.M., 1911; Ph.D., University of Minnesota, 1915. Fellow in Histology, University of Kansas, 1910-11; Instructor in Anatomy, University of Wisconsin, 1911-12; Instructor in Histology, Embryology, and Anatomy, University of Minnesota, 1912-14; Instructor in Anatomy, Washington University Medical School, 1914-16.

McMillan Hall, Washington University

ALBERT FREDERICK KOETTER, M.D. . . *Associate in Clinical Otology*

M.D., Missouri Medical College, 1892; Interne, Frauen Hospital, Dresden, 1894. Assistant and Instructor in Otology, Washington University Medical School, 1910-16. Member of Staff, Deaconess Hospital. *Assistant Otologist to the Barnes Hospital, and Chief of the Otological Clinic, Washington University Dispensary.*

Humboldt Building

JOHN ROBERTS CAULK, M.D. *Associate in Clinical Genito-Urinary Surgery*

A.B., St. John's College, 1901, and A.M., 1912; M.D., Johns Hopkins Medical School, 1906; Interne and Second Assistant Resident Physician, Union Protestant Infirmary, Baltimore, 1906-07; Assistant Resident Surgeon, Johns Hopkins Hospital, 1908-10. Instructor in Genito-Urinary Surgery, Washington University Medical School, 1911-17. Assistant Surgeon, Washington University Dispensary, 1910-14. Genito-Urinary Surgeon to Bethesda Hospital and St. Luke's Hospital. Editor, Department Genito-Urinary Surgery, Interstate Medical Journal; Collaborating Editor, Surgery, Gynecology and Obstetrics; Collaborating Editor, The American Journal of Syphilis. *Assistant Surgeon, Barnes Hospital, and Chief of the Clinic for Genito-Urinary Surgery, Washington University Dispensary.*

Humboldt Building

BARNEY BROOKS, M.D. *Associate in Surgery*

B.S., University of Texas, 1905; M.D., Johns Hopkins University, 1911; Resident House Officer, Johns Hopkins Hospital, 1911-12. Assistant and Instructor in Surgery, Washington University Medical School, 1912-17. Resident Surgeon, Barnes Hospital, 1914-16. *Assistant Surgeon to the Barnes Hospital, and Surgeon to Out Patients, Washington University Dispensary.*

5637 Berlin Avenue

ALAN MASON CHESNEY, M.D. *Associate in Medicine*

A.B., Johns Hopkins University, 1908, M.D., 1912; Interne and Assistant Resident Physician, Johns Hopkins Hospital, 1912-14; Assistant Resident, Rockefeller Institute Hospital, New York, 1914-16. Assistant in Medicine, Johns Hopkins University, 1913-14.

JEAN VALJEAN COOKE, M.D. *Associate in Pediatrics*

A.B., University of West Virginia, 1903, and Yale University, 1904; M.D., Johns Hopkins University, 1908; Resident Pathologist, Pennsylvania Hospital, 1910-11; Junior Pathologist, Touro Infirmary and Charity Hospital, 1911-12; Assistant Pathologist, University of California Hospital and Visiting Pathologist, San Francisco Hospital, 1912-17. *Assistant Physician to the St. Louis Children's Hospital and Physician to Out Patients, Washington University Dispensary.*

4225 McPherson Avenue

EDWARD RILEY ALLEN, PH.D. *Acting Associate in Biological Chemistry*

B.S., University of Illinois, 1906; Ph.D., Cornell University, 1913. Assistant in Chemistry, Cornell University, 1911-12; Scientific Assistant, United

States Department of Agriculture, 1906-10; Associate in Soil Biology and Technology, Ohio Agricultural Experiment Station, 1913-17.

4383a Forest Park Boulevard

MALCOLM ANDREW BLISS, M.D. . . . *Instructor in Clinical Psychiatry*

D.D.S., Missouri Dental College, 1884; M.D., Northwestern University, 1890. Lecturer on Neurology and Instructor in Psychiatry, Washington University Medical School, 1902-10. *Associate Physician, St. Louis City Hospital, and Consulting Physician, City Sanitarium.*

Humboldt Building

WALTER BAUMGARTEN, M.D. *Instructor in Clinical Medicine*

A.B., Johns Hopkins University, 1894; M.D., St. Louis Medical College, 1896; Interne, Female Hospital and St. Louis City Hospital, 1896-97. Assistant in Physiology, Harvard Medical School, 1897-98; Assistant in Medicine, Johns Hopkins Medical School, 1902-03; Instructor in Clinical Chemistry and Microscopy, Washington University Medical School, 1903-08. Member of the Medical Staff, St. Louis Maternity Hospital, 1908-13. Member of the Medical Staffs, St. Luke's Hospital and St. Louis Mullanphy Hospital. *Assistant Physician to the Barnes Hospital.*

Humboldt Building

WILLIAM EMIL SAUER, M.D. . . *Instructor in Clinical Laryngology*

M.D., Medical Department of Washington University, 1896; Interne, St. Louis City Hospital and Female Hospital, 1896-97. Clinical Instructor in Laryngology, Washington University Medical School, 1906-11. Assistant Physician, St. Louis Insane Asylum, 1897-98; Clinical Assistant, Surgeon to Out Patients, and Chief of Laryngological Out Patient Clinic, 1907-14, Washington University Hospital; Otologist and Laryngologist to St. Louis Mullanphy Hospital and Bethesda Hospital; Laryngologist to St. Louis Maternity Hospital. *Visiting Surgeon, St. Louis City Hospital, and Assistant Laryngologist to the Barnes Hospital.*

Humboldt Building

WILLIAM HEWSON MOOK, M.D. . *Instructor in Clinical Dermatology*

M.D., Beaumont Medical College, 1900; Interne, St. Louis City Hospital, 1900-01, and New York Skin and Cancer Hospital, 1903-05. Associate Professor of Dermatology, St. Louis University 1910-12. Visiting Dermatologist, St. Louis City Hospital, 1910-12; Associate Physician, Barnard Free Skin and Cancer Hospital; Dermatologist, Missouri Pacific Railway Hospital. *Visiting Physician, St. Louis City Hospital, Assistant Derma-*

tologist to the Barnes Hospital, and Physician to Out Patients, Washington University Dispensary.

Wall Building

FREDERICK THEODORE FAHLEN,* M.D. *Instructor in Clinical Medicine*

M.D., Washington University Medical School, 1903; Interne, St. Louis Mullanphy Hospital, 1902-03. Assistant in Medicine, Washington University Medical School, 1910-14; Chief of Laboratory and Member of Staff, St. Louis Mullanphy Hospital. *Visiting Physician, St. Louis City Hospital.*

5594 Bartmer Avenue

JEROME EPSTEIN COOK, M.D. . . . *Instructor in Clinical Medicine*

M.D., Washington University Medical School, 1905; Assistant Physician, St. Louis City Hospital, 1905-06. Professor of Bacteriology and General Pathology, Washington University Dental School; Assistant in Medicine, Washington University Medical School, 1910-14; Associate Physician to the Jewish Hospital. Member of Editorial Staff, Interstate Medical Journal. *Visiting Physician, St. Louis City Hospital, and Assistant Physician to the Barnes Hospital.*

Metropolitan Building

ARTHUR OSCAR FISHER, M.D. . . . *Instructor in Clinical Surgery*

A.B., University of Wisconsin, 1905; M.D., Johns Hopkins University, 1909; Resident House Officer and Assistant Resident Surgeon, Johns Hopkins Hospital, 1909-11. Assistant in Surgery, Washington University Medical School, 1911-14. *Visiting Surgeon, St. Louis City Hospital, Assistant Surgeon to the Barnes Hospital and to the St. Louis Children's Hospital, and Surgeon to Out Patients, Washington University Dispensary.*

Humboldt Building

GRANDISON DELANEY ROYSTON, M.D. *Instructor in Clinical Obstetrics*

M.D., Washington University Medical School, 1907; Junior and Senior Obstetrical Resident, Washington University Hospital, 1907-09. Assistant in Obstetrics, Washington University Medical School, 1913-15. Assistant Superintendent, St. Louis Female Hospital, 1910; Member of Medical Staff, St. Louis Maternity Hospital, 1913-. *Assistant Obstetrician to the Barnes Hospital and Chief of the Obstetrical and Gynecological Clinic, Washington University Dispensary.*

3700 Westminster Place

* Absent on leave.

HENRY EDWARD MILLER, M.D. *Instructor in Clinical Laryngology and Rhinology*

M.D., Washington University Medical School, 1902; Interne, St. Louis City Hospital, 1902-03. *Surgeon to Out Patients, Washington University Dispensary.*

Metropolitan Building

CHARLES ARMIN GUNDELACH, M.D. *Instructor in Clinical Laryngology and Rhinology*

M.D., Washington University Medical School, 1908; Interne St. Louis City Hospital, 1908-09. *Consulting Surgeon, St. Louis City Hospital, and Chief of the Laryngological Clinic, Washington University Dispensary.*

Lister Building

LLEWELLYN SALE, M.D. *Instructor in Clinical Medicine*

M.D., Washington University Medical School, 1907; Interne, St. Louis City Hospital, 1907-08. Assistant Professor, St. Louis University School of Medicine, 1910-14; formerly Consulting Physician, St. Louis City Hospital; Associate Physician, Jewish Hospital, St. Louis. *Physician to Out Patients, Washington University Dispensary.*

Wall Building

ADRIEN SAMUEL BLEYER, M.D. . . *Instructor in Clinical Pediatrics*

M.D., Missouri Medical College, 1899; Assistant Physician, St. Louis City Hospital, 1899-1900, and Female Hospital, 1900-01. Lecturer on Hygiene, Medical Department of Washington University, 1907-11. Assistant Editor and Editor, Medical Bulletin of Washington University, 1903-08. Lecturer on Preventive Medicine, Washington University Medical School, 1912-; Active Pediatrician, St. Louis Maternity Hospital. *Visiting Physician, St. Louis City Hospital, and Physician to Out Patients, Washington University Dispensary.*

706 North Kingshighway

LOUIS HENRY HEMPELMANN, M.D. *Instructor in Clinical Medicine*

M.D., Medical Department of Washington University, 1896; Interne, St. Louis City Hospital and City Insane Asylum, 1896-98. Assistant Superintendent, Insane Asylum, 1898; Instructor in Clinical Medicine, Washington University Medical School, 1904-12; Consultant, St. Louis City Hospital, 1909-11; Visiting Physician, St. Louis Mullanphy Hospital and Deaconess Hospital.

Metropolitan Building

HUGH McCULLOCH, M.D......*Instructor in Pediatrics*

A.B., University of Arkansas, 1908; M.D., Johns Hopkins Medical School, 1912; Resident House Officer, Washington University Hospital, 1912-13; Resident Physician, Washington University and Barnes Hospitals, 1912-15. *Assistant Physician, St. Louis Children's Hospital, and Physician to Out Patients, Washington University Dispensary.*

St. Louis Children's Hospital

THEODORE CARL HEMPELMANN, M.D......*Instructor in Clinical Pediatrics*

M.D., Washington University Medical School, 1908; Interne, St. Louis City Hospital, 1908-09. Assistant Physician to Out Patients, St. Louis Children's Hospital, 1911-13; Pediatrician to the Deaconess Hospital; Visiting Physician, St. Louis City Hospital and Infectious Disease Hospital. *Assistant Physician to the St. Louis Children's Hospital and Physician to Out Patients, Washington University Dispensary.*

Metropolitan Building

HOWARD HOMER BELL, M.D......*Instructor in Pathology*

M.D., University of Pennsylvania, 1912; Interne, Harrisburg General Hospital, 1912-1913. Assistant in Pathology and Bacteriology, University of Alabama School of Medicine, 1913-14; Assistant in Pathology, Washington University Medical School, 1914-16. *Assistant Pathologist to the Barnes Hospital.*

Euclid Avenue and Kingshighway

HERBERT SPENCER GASSER, M.D......*Instructor in Physiology*

A.B., University of Wisconsin, 1910, and A.M., 1911; M.D., Johns Hopkins University, 1915. Instructor in Physiology, 1911-13, and in Pharmacology, 1915-16, University of Wisconsin.

5574 Berlin Avenue

FRANK NORMAN WILSON, M. D......*Instructor in Medicine*

B.S., University of Michigan, 1911, and M.D., 1913; Interne, University Hospital, Ann Arbor, First Assistant in Internal Medicine, and Instructor in Internal Medicine, 1913-16, University of Michigan. *Physician to Out Patients, Washington University Dispensary.*

GEORGE CASTLEMAN MACKAY, LL.B......*Instructor in Medical Jurisprudence*

LL.B., Harvard University, 1904.

Security Building

HARRY WEBSTER LYMAN, M.D....*Instructor in Clinical Otology*

M.D., St. Louis College of Physicians and Surgeons, 1895; Interne, St. Louis Woman's Hospital, 1895-96; Clinical Clerk, London Hospital, 1900. Assistant, St. Louis College of Physicians and Surgeons, 1895-96; Consulting Otologist, Rhinologist and Laryngologist, St. Louis City Hospital, 1905-10. Demonstrator and Professor of Anatomy, St. Louis College of Physicians and Surgeons, 1900-07. *Surgeon to Out Patients, Washington University Dispensary.*

Carleton Building

JOHN GREEN, JR., M.D....*Instructor in Clinical Ophthalmology*

A.B., Harvard University, 1894; M.D., Medical Department of Washington University, 1898; Assistant Resident Physician, St. Louis City Hospital, 1898-99. Assistant in Ophthalmology, Washington University Medical School, 1912-17. Consulting Ophthalmic Surgeon, Female Hospital, 1904-06; Ophthalmic Surgeon, Social Service Hospital, 1908-11, St. Louis City Hospital, 1910-12; Consulting Ophthalmic Surgeon, St. Louis Maternity Hospital. Editor, Department of Ophthalmology, Interstate Medical Journal. *Assistant Ophthalmologist, Barnes Hospital, and Surgeon to Out Patients, Washington University Dispensary.*

Metropolitan Building

WILLIAM EWING SHAHAN, M.D......*Instructor in Clinical Ophthalmology*

A.B., Washington University, 1901, and A.M., 1912; M.D., Washington University Medical School, 1904. Instructor in Chemistry, 1903, and Assistant in Ophthalmology, 1915-17, Washington University Medical School. *Surgeon to Out Patients, Washington University Dispensary.*

Metropolitan Building

JACOB JESSE SINGER, M.D......*Instructor in Clinical Medicine*

M.D., Washington University Medical School, 1904; Interne, St. Louis Female Hospital, 1904-06. Assistant Physician, City Dispensary, 1906-09. Consulting Physician, City Sanitarium, 1914-16; Assistant Physician to Out Patients, Washington University Dispensary, 1911-16; Consulting Physician, Lutheran Hospital; Physician to Night and Day Camp; Consultant to Municipal Nurses' Board and to the Jewish Home for Chronic Invalids. *Physician to Out Patients, Washington University Dispensary.*

5752 Westminster Place

SAMUEL WOLCOTT CLAUSEN, M.D. *Instructor in Pediatrics*

A.B., Williams College, 1910; M.D., Johns Hopkins University, 1915; Interne and Assistant Resident Physician, Johns Hopkins Hospital, 1915-17. *Assistant Physician to the St. Louis Children's Hospital and Physician to Out Patients, Washington University Dispensary.*

St. Louis Children's Hospital

ADOLPH GEORGE SCHLOSSSTEIN, M.D. *Assistant in Clinical Obstetrics*

M.D., St. Louis Medical College, 1894; Interne, St. Louis City Hospital, Female Hospital and Physician to City Dispensary, 1894-96; Interne, Frauenklinik, Munich, 1897. Clinical Assistant, Instructor and Lecturer, Washington University Medical School, 1899-1912. *Assistant Obstetrician to the Barnes Hospital.*

3153 Longfellow Boulevard

JAMES ARCHER O'REILLY, M.D. . . *Assistant in Clinical Orthopedic Surgery*

A.B., Harvard University, 1902, and M.D., 1906; Interne Carney Hospital, Boston, 1906-07. Assistant in Orthopedic Clinic, Children's Hospital, Boston; Instructor in Orthopedic Surgery, St. Louis University Medical School, 1907-11. Orthopedic Surgeon to St. John's Hospital, Rebekah Hospital and Mt. St. Rose Hospital. *Visiting Surgeon, St. Louis City Hospital, Assistant Surgeon to the St. Louis Children's Hospital and the Barnes Hospital, and Surgeon to Out Patients, Washington University Dispensary.*

Metropolitan Building

JULIUS HENRY GROSS, M.D. . . *Assistant in Clinical Ophthalmology*

M.D., Medical Department of Washington University, 1893; Interne, City Infirmary, 1893-95. Volunteer Assistant at Eye Clinic, University of Kiel, 1899; Instructor in Ophthalmology, Washington University Medical School, 1909. *Visiting Surgeon, St. Louis City Hospital, and Surgeon to Out Patients, Washington University Dispensary.*

Carleton Building

WALTER FISCHER, M.D. *Assistant in Clinical Medicine*

A.B., Harvard University, 1902; M.D., Washington University Medical School, 1905; Assistant Physician, St. Louis City Hospital, 1905-06. Clinical Assistant, 1908-09, Physician to Out Patients, 1909-14, Washington University Hospital; Visiting Physician, St. Luke's Hospital. *Visiting Physician, St. Louis City Hospital, and Assistant Physician to the Barnes Hospital.*

Humboldt Building

LOUIS KAUFMAN GUGGENHEIM, M.D. *Assistant in Clinical
Otology*

M.D., Washington University Medical School, 1905; Interne, St. Louis City Hospital, 1905-06. Formerly Member of Staff, St. Louis City Hospital. *Surgeon to Out Patients, Washington University Dispensary.*

Carleton Building

MEREDITH RUTHERFORD JOHNSTON, M.D. . . *Assistant in Clinical
Pediatrics*

M.D., Washington University Medical School, 1913; Interne, Washington University and St. Louis Children's Hospitals, 1913-14, and Boston Floating Hospital, 1914. *Resident Physician, St. Louis Children's Hospital.*

St. Louis Children's Hospital

QUITMAN UNDERWOOD NEWELL, M.D. *Assistant in Clinical
Obstetrics*

M.D., University of Alabama School of Medicine, 1911; Interne, Southern Infirmary, Mobile, 1911; House Officer, 1911-12, and Resident Obstetrician and Gynecologist, 1912-14, Washington University Hospital; Obstetrician, St. Louis Maternity Hospital. *Surgeon to Out Patients, Washington University Dispensary.*

Wall Building

WALTER CHARLES GEORGE KIRCHNER, M.D. . *Assistant in Clinical
Surgery*

A.B., Washington University, 1897; M.D., Washington University Medical Department, 1901; Interne, St. Louis City Hospital, 1901-03. Assistant and Instructor in Bacteriology, Washington University Medical Department, 1903-05. Assistant Bacteriologist, Health Department, St. Louis, 1901; Assistant Superintendent, 1903-07, Superintendent, and Surgeon in Charge, 1907-10, St. Louis City Hospital; Consulting Surgeon, St. John's Hospital. *Visiting Surgeon, St. Louis City Hospital.*

Metropolitan Building

CHARLES ELIHU HYNDMAN, M.D. . . *Assistant in Clinical Surgery*

M.D., Washington University Medical School, 1906; Interne, St. Louis City Hospital, 1906-07, St. Luke's Hospital, 1907-08. Assistant in Surgery, Barnard Free Skin and Cancer Hospital, 1908-12; Assistant Surgeon to Out Patients, St. Louis Children's Hospital, 1910-14; Assistant in Surgery, St. Louis Mullanphy Hospital. *Visiting Surgeon, St. Louis City Hospital.*

Humboldt Building

PHELPS GRANT HURFORD, M.D. . . . *Assistant in Clinical Pediatrics*

M.D., Washington University Medical School, 1908; Interne, Washington University Hospital, 1907-08, St. Louis City Hospital, 1908-09. Assistant Surgeon to Out Patients, St. Louis Children's Hospital, 1910-14. Visiting Pediatrician, St. Louis Lutheran Hospital. *Visiting Physician, Infectious Disease Hospital, and Physician to Out Patients, Washington University Dispensary.*

4036 Westminster Place

CHARLES ALLEN STONE, M.D. . . . *Assistant in Clinical Orthopedic Surgery*

B.S., Blackburn College, Ill., 1904; M.D., Washington University Medical School, 1908; Interne, Martha Parsons Free Hospital for Children, 1908-09. Assistant Surgeon to Out Patients, Martha Parsons Free Hospital for Children and St. Louis Children's Hospital, 1908-14. *Visiting Surgeon, St. Louis City Hospital, and Assistant Surgeon to Out Patients, Washington University Dispensary.*

2230 College Avenue

WILLIAM MURRAY ROBERTSON, M.D. . . . *Assistant in Clinical Surgery*

M.D., University of Virginia, 1889; Interne, New York City Hospital, 1890-91. Instructor in Genito-Urinary Surgery, Medical Department of Washington University, 1905-11; Associate Genito-Urinary Surgeon, St. Louis Mullanphy Hospital, 1904-08; Surgeon to Out Patients, Washington University Hospital and Dispensary, 1905-11; Genito-Urinary Surgeon, Jewish Hospital. *Visiting Surgeon, St. Louis City Hospital.*

Humboldt Building

HENRY MCCLURE YOUNG, M.D. . . . *Assistant in Clinical Surgery*

A.B., Yale University, 1899; M.D., Washington University Medical School, 1908; Interne, St. Louis City Hospital, 1908-09. Voluntary Assistant, University of Koenigsberg, 1909-10; Instructor in Surgery, St. Louis University School of Medicine, 1911-13. Assistant Genito-Urinary Surgeon, St. Louis Mullanphy Hospital, 1913-15. *Visiting Surgeon, St. Louis City Hospital, and Surgeon to Out Patients, Washington University Dispensary.*

Carleton Building

FRANK HENRY EWERHARDT, M.D. *Assistant in Medicine*

M.D., Washington University Medical School, 1909. Assistant in Anatomy, Washington University Medical School, 1913-14. Assistant Surgeon, Orthopedic Out Patient Clinic, St. Louis Children's Hospital, 1912-14.

Assistant Surgeon to Out Patients, Washington University Dispensary, and Physician in Charge of Hydro- and Physical Therapeutic Department, Barnes Hospital.

5204 Kensington Avenue

OMAR RICHARD SEVIN, M.D. *Assistant in Surgery*
M.D., Washington University Medical School, 1913; Interne, Washington University Hospital and Barnes Hospital, 1913-15. *Resident Surgeon, Barnes Hospital.*

Barnes Hospital

OTTO HENRY SCHWARZ, M.D. . . . *Assistant in Clinical Obstetrics*
M.D., Washington University Medical School, 1913; Interne, St. Louis Children's Hospital, 1913, and Washington University Hospital, 1914; Resident Obstetrician, Barnes Hospital, 1914-15. *Assistant Gynecologist to the Barnes Hospital.*

440 N. Newstead Avenue

WILLIAM HARWOOD OLMSTED, M.D. *Assistant in Medicine*
B.S., Coe College, 1909; M.D., Johns Hopkins University, 1913; Interne, Washington University Hospital, 1913-14. *Assistant Resident Physician, Barnes Hospital.*

Barnes Hospital

JOSEPH WILLIAM LARIMORE, M.D. . *Assistant in Clinical Medicine*
A.B., DePauw University, 1908; M.D., Washington University Medical School, 1913; Interne, Washington University Hospital, 1913-14. *Physician to Out Patients, Washington University Dispensary.*

Wall Building

GEORGES IVES, M.D. *Assistant in Clinical Medicine*
A.B., University of Wisconsin, 1907; M.D., Johns Hopkins University, 1911. Assistant in Physiology, University of Wisconsin, 1908; Assistant Professor of Pathology, St. Louis University School of Medicine, 1912-15; Assistant State Bacteriologist, Alabama, 1911-12; Pathologist, North Chicago Hospital, 1912; Pathologist, St. John's Hospital, St. Louis, 1912-15; Assistant in Dermatology, Washington University Medical School, 1916-17; Pathologist, Missouri Baptist Sanitarium, 1917.

Wall Building

EDWIN PARTRIDGE LEHMAN, M.D. *Assistant in Surgery*
A.B., Williams College, 1910; M.D., Harvard University, 1914; Interne, Peter Bent Brigham Hospital, Boston, 1914-15. Assistant Resident Surgeon, Barnes Hospital, 1915-16.

OLIVER HOWARD CAMPBELL, M.D. . . . *Assistant in Clinical Medicine*

M.D., Missouri Medical College, 1899; Interne, St. Louis City Hospital, 1899-1900. Assistant Physician to Out Patients, Washington University Hospital Dispensary, 1903-11; Instructor in Physiology, Washington University Dental School, 1907-. *Visiting Physician, St. Louis City Hospital.*

3542 Washington Avenue

CHARLES HERMANN EYERMANN, M.D. *Assistant in Clinical Medicine*

M.D., St. Louis University, 1911; Interne and Assistant Resident Physician, 1911-13, and Resident Internist, 1915, St. Louis City Hospital. *Physician to Medical Students, Washington University, and Physician to Out Patients, Washington University Dispensary.*

3100a Pennsylvania Avenue

SHERWOOD MOORE, M.D. *Assistant in Surgery*

M.D., Washington University, 1905; Interne, St. Louis City Hospital, 1905-06; Resident, Washington University Hospital, 1906-07; Instructor in Obstetrics, Washington University Medical School, 1907-09. Assistant in Surgery, St. Louis Children's Hospital, 1910-13; House Physician, Massachusetts General Hospital, X-ray Department, 1916-17. *Roentgenologist in Charge of the Actinographic Laboratory, Barnes Hospital.*

5858 Nina Place

ELLIS FISCHER, M.D. *Assistant in Clinical Surgery*

A.B., Harvard University, 1904; M.D., Washington University, 1908; Interne, St. Louis City Hospital, 1908-10. Formerly Assistant in Pathology, and Voluntary Assistant in Surgery, University of Berne. Assistant Surgeon to Out Patients, Washington University Dispensary, 1913-16. *Visiting Surgeon, St. Louis City Hospital.*

Humboldt Building

FRANK IRONS DARROW, M.D. *Assistant in Pathology*

B.S., North Dakota Agricultural College, 1912; M.D., Johns Hopkins University, 1916; Interne, Barnes Hospital, 1916-17. *Resident Pathologist, Barnes Hospital.*

Barnes Hospital

MICHAEL KASAK, M.D. *Assistant in Medicine*

B.S., University of Wisconsin, 1915; M.D., Washington University, 1917.
Physician to Out Patients, Washington University Dispensary.

4572 Clayton Avenue

LEO CHAPMAN BEAN, M.D. *Assistant in Pathology*

Ph.B., Ohio University, 1911; M.D., Johns Hopkins University, 1915;
Interne, Union Protestant Infirmary, Baltimore, 1915-16; Assistant Resi-
dent Physician, Bay View Hospital, Baltimore, 1916-17.

4418 Forest Park Boulevard

LEITH HOLLINSHEAD SLOCUMB, M.D. *Assistant in Clinical
Medicine*

M.D., Washington University, 1913; Interne, St. Louis City Hospital,
1913-14. *Physician to Out Patients, Washington University Dispensary.*

3743 Sylvan Place

ALPHONSE FERDINAND DAMES, M.D. *Assistant in Clinical
Laryngology and Rhinology*

M.D., Washington University, 1906. Assistant, Ear, Nose and Throat
Clinic, Mullanphy Hospital, 1910-14; Oto-Laryngologist, St. Mary's In-
firmary. *Surgeon to Out Patients, Washington University Dispensary.*

Metropolitan Building

WILLIAM FREDERIC HARDY, M.D. . . *Assistant in Clinical Ophthal-
mology*

M.D., Washington University, 1901; Interne, St. Louis City Hospital, 1901-
02; Assistant Editor, American Journal of Ophthalmology, 1917; Collab-
orator, American Journal of Ophthalmology, 1918-. *Surgeon to Out
Patients, Washington University Dispensary.*

Metropolitan Building

MILLARD FILLMORE ARBUCKLE, M.D. *Assistant in Clinical
Laryngology and Rhinology*

M.D., Washington University, 1909. *Surgeon to Out Patients, Washing-
ton University Dispensary.*

East St. Louis

WILLIAM MORGAN CASE BRYAN, M.D. *Assistant in Clinical
Laryngology and Rhinology*

A.B., Washington University, 1897; M.S., University of Michigan, 1898;
M.D., Johns Hopkins University, 1902; Interne, German Hospital, 1902-

04. Instructor, Ear, Nose and Throat Diseases, St. Louis University, 1908-16. Oto-Laryngologist, Alexian Brothers Hospital, 1908-16; Visiting Oto-Laryngologist, St. Louis City Hospital, 1914-15; Consultant in Oto-Laryngology, Alexian Brothers Hospital and St. John's Hospital. *Surgeon to Out Patients, Washington University Dispensary.*

Humboldt Building

RICHARD S. WEISS, M.D. *Assistant in Clinical Dermatology*

M.D., Washington University, 1909. Interne, St. Louis City Hospital, 1909-10. Visiting Physician, St. Louis City Hospital, 1914-15, and Sanitarium and Isolation Hospital, St. Louis, 1914-. *Physician to Out Patients, Washington University Dispensary.*

Wall Building

MICHAEL DAVID MORAN, M.D. *Assistant in Medicine*

B.S., University of Wisconsin, 1915; M.D., Washington University, 1917; Interne, Barnard Free Skin and Cancer Hospital, 1917-18.

OFFICERS AND COMMITTEES OF THE FACULTY OF THE MEDICAL SCHOOL

EXECUTIVE FACULTY

Frederic Aldin Hall, A.M., Litt.D., L.H.D., LL.D.,
Chancellor

Philip A. Shaffer, Ph.D., *Dean*

G. Canby Robinson, M.D., *Acting Dean*

George Dock, Sc.D., M.D.

Robert J. Terry, M.D.

Joseph Erlanger, M.D.

Fred T. Murphy, M.D.

Eugene L. Opie, M.D.

Louis H. Burlingham, M.D.

W. McKim Marriott, M.D.*

Advisory Committee to the Executive Faculty

Norman B. Carson, M.D.

John B. Shapleigh, M.D.

GENERAL FACULTY

The General Faculty is composed of all the officers of administration and instruction above and including the rank of Associate.

Philip C. Jeans, M.D., *Secretary of General Faculty*

Curriculum Committee†

1ST AND 2D YEARS

JOSEPH ERLANGER, *Chairman*

DENNIS E. JACKSON

EUGENE L. OPIE

ERNEST SACHS

ROBERT J. TERRY

3D AND 4TH YEARS

G. CANBY ROBINSON, *Chairman*

GEORGE DOCK

W. MCKIM MARRIOTT

ERNEST SACHS

HENRY SCHWARZ

GREENFIELD SLUDER

Library Committee

GEORGE DOCK, *Chairman*

JOSEPH ERLANGER

EUGENE L. OPIE

LEO LOEB

ERNEST SACHS

ROBERT J. TERRY

* On leave of absence.

† The Dean is ex-officio a member of all standing committees.

*Committee on Publication*G. CANBY ROBINSON, *Chairman*

LOUIS H. BURLINGHAM

EUGENE L. OPIE

*Committee on Admissions and Scholarships*G. CANBY ROBINSON, *Chairman*

GEORGE DOCK

ROBERT J. TERRY

*Committee for the Barnes Hospital*LOUIS H. BURLINGHAM, *Chairman*

GEORGE DOCK

ERNEST SACHS

EUGENE L. OPIE

HENRY SCHWARZ

Faculty Representative to the Barnes Hospital Board

FRED T. MURPHY

GEORGE DOCK

*Committee for the St. Louis Children's Hospital*W. MCKIM MARRIOTT, *Chairman*

LOUIS H. BURLINGHAM

EUGENE L. OPIE

ERNEST SACHS

*Committee for the Washington University Dispensary*G. CANBY ROBINSON, *Chairman*

LOUIS H. BURLINGHAM

PHILIP C. JEANS

GEORGE DOCK

EUGENE L. OPIE

ARTHUR E. EWING

ERNEST SACHS

W. MCKIM MARRIOTT

HENRY SCHWARZ

*Committee for the Washington University Training School for
Nurses*G. CANBY ROBINSON, *Chairman*

LOUIS H. BURLINGHAM

HENRY SCHWARZ

*Committee for the Department of Social Service*G. CANBY ROBINSON, *Chairman*

LOUIS H. BURLINGHAM

ERNEST SACHS

PHILIP C. JEANS

HENRY SCHWARZ

ETHEL RIDDLE

*Committee for the St. Louis City Hospital*W. MCKIM MARRIOTT, *Chairman*

GEORGE DOCK

HENRY SCHWARZ

*Committee on Buildings and Grounds*ROBERT J. TERRY, *Chairman*

JOSEPH ERLANGER

G. CANBY ROBINSON

EUGENE L. OPIE

ERNEST SACHS

*Committee on Graduate Medical Studies*EUGENE L. OPIE, *Chairman*

GEORGE DOCK

W. MCKIM MARRIOTT

MARTIN F. ENGMAN

HENRY SCHWARZ

Representative to the Committee of the University on Graduate Study

Editor of the Medical Bulletin

*Officers of the Washington University Medical Society*ERNEST SACHS, *President*MONTROSE T. BURROWS, *Secretary**Medical Adviser to Students*

CHARLES H. EYERMANN

Registrar

BERTHA E. ROMBAUER

Assistant Registrar

LORETTA K. O'GORMAN

Acting Librarian

ELLA B. LAWRENCE

Assistant Librarian

G. MARIE JONES

STAFFS OF HOSPITALS AND DISPENSARY

THE BARNES HOSPITAL

Louis H. Burlingham, M.D.	Superintendent
George Dock, M.D.	Physician in Chief
Fred T. Murphy, M.D.	Surgeon in Chief
Henry Schwarz, M.D.	Obstetrician in Chief
Eugene L. Opie, M.D.	Pathologist
Joseph Erlanger, M.D.	Physiologist
Philip A. Shaffer, Ph.D.	Chemist

Medicine

G. Canby Robinson, M.D.	Associate Physician
Elsworth S. Smith, M.D.	} . . . Assistant Physicians
Albert E. Taussig, M.D.	
R. Walter Mills, M.D.	
Jerome Epstein Cook, M.D.	
Walter Fischel, M.D.	
Walter Baumgartner, M.D.	
Raleigh K. Andrews, M.D.	Resident Physician
Charles E. Gilliland, M.D.	Assistant Resident Physi- cian
Wilbur K. Brown, M.D.	} . . . House Officers
Hermon R. Cole, M.D.	
Henry St. C. O'Donnell, M.D.	
Kenneth C. Peacock, M.D.	
Albert R. Tormey, M.D.	
Wellwood M. Nesbit, M.D.	
Mervin Freeman, M.D.	

Surgery

Ernest Sachs, M.D.	Associate Surgeon
Vilray P. Blair, M.D.	} . . . Assistant Surgeons
Nathaniel Allison, M.D.	
Malvern B. Clopton, M.D.	
John R. Caulk, M.D.	
Arthur O. Fisher, M.D.	
Archer O'Reilly, M.D.	
Barney Brooks, M.D.	

Omar R. Sevin, M.D.	Resident Surgeon
Edmond Bechtold, M.D.	} . . . Assistant Resident Surgeons
Dalton K. Rose, M.D.	
Frederick B. Abbott, M.D.	
Richard P. Dorris, M.D.	} . . . House Officers
Forest H. Staley, M.D.	
Francis J. Mahoney	

Obstetrics

Harry S. Crossen, M.D.	Associate Gynecologist
George Gellhorn, M.D.	} . . . Assistant Gynecologists
Fred J. Taussig, M.D.	
Otto H. Schwarz, M.D.	
Adolph G. Schlossstein, M.D.	} . . . Assistant Obstetricians
Grandison D. Royston, M.D.	
William T. Wilkening, M.D.	Resident Obstetrician and Gynecologist
Earl C. Sage, M.D.	} . . . Assistant Resident Obstetricians and Gynecologists
Floyd W. Rice, M.D.	
Samuel F. Abrams, M.D.	} . . . House Officers
Frank P. McNalley, M.D.	

Special Departments

John B. Shapleigh, M.D.	Otologist
Albert F. Koetter, M.D.	Assistant Otologist
Arthur E. Ewing, M.D.	Ophthalmologist
Meyer Wiener, M.D.	Assistant Ophthalmologist
Greenfield Sluder, M.D.	Laryngologist
William E. Sauer, M.D.	Assistant Laryngologist
C. Armin Gundelach, M.D.	Assistant Laryngologist
Martin F. Engman, M.D.	Dermatologist
William H. Mook, M.D.	Assistant Dermatologist
Sidney I. Schwab, M.D.	Neurologist
James A. Brown, D.D.S.	Dentist
William B. Spotts, D.D.S.	Acting Dentist

Frank H. Ewerhardt, M.D.	Physician in Charge of Hydro- and Physical Therapeutic Department
Sherwood Moore, M.D.	Roentgenologist in Charge
R. Walter Mills, M.D.	Roentgenologist

Pathology

Montrose T. Burrows, M.D.	Associate Pathologist
Leo. C. Bean, M.D.	Assistant Pathologist
Frank I. Darrow, M.D.	Resident Pathologist

THE ST. LOUIS CHILDREN'S HOSPITAL

Fred T. Murphy, M.D.	Surgeon in Chief
W. McKim Marriott, M.D.*	Physician in Chief
Eugene L. Opie, M.D.	Pathologist
Ernest Sachs, M.D.	Assistant Surgeon acting in Charge of the Sur- gical Service

Pediatrics

George M. Tuttle, M.D.	Consulting Physician
Borden S. Veeder, M.D.	Associate Physician
Philip C. Jeans, M.D.	} . . Assistant Physicians
Theodore C. Hempelmann, M.D.	
Hugh McCulloch, M.D.	
Jean V. Cooke, M.D.	
Samuel W. Clausen, M.D.	
Maurice J. Lonsway, M.D.	Resident Physician
Bradford F. Dearing, M.D.	} . . House Officers
Alexander C. Kirby, M.D.	
Harry W. Schumacher, M.D.	
Joseph P. Costello	

* On leave of absence.

Surgery

Malvern B. Clopton, M.D.	} Associate Surgeons
Nathaniel Allison, M.D.		
Vilray P. Blair, M.D.	} Assistant Surgeons
Archer O'Reilly, M.D.		
Arthur O. Fisher, M.D.		
Barney Brooks, M.D.		

Special Departments

John B. Shapleigh, M.D.	. . . .	Otologist
Arthur E. Ewing, M.D.	. . . .	Ophthalmologist
Greenfield Sluder, M.D.	. . . .	Laryngologist
Martin F. Engman, M.D.	. . . .	Dermatologist
Sidney I. Schwab, M.D.	. . . .	Neurologist
Montrose T. Burrows, M.D.	. . . .	Associate Pathologist

WASHINGTON UNIVERSITY DISPENSARY, OUT-
PATIENT DEPARTMENT OF THE BARNES AND
THE ST. LOUIS CHILDREN'S HOSPITALS

George Dock, M.D.	. . . .	Physician in Chief
Fred T. Murphy, M.D.	. . . .	Surgeon in Chief
Henry Schwarz, M.D.	. . . .	Obstetrician in Chief
John B. Shapleigh, M.D.	. . . .	Otologist in Chief
Greenfield Sluder, M.D.	. . . .	Laryngologist in Chief
W. McKim Marriott, M.D.*	. . . .	Pediatrician in Chief
Augusta K. Mathieu, R.N.	. . . .	Superintendent

Medicine

G. Canby Robinson, M.D.	Chief of Clinic
-------------------------	---------	-----------------

General Medical Division

Charles H. Eyermann, M.D.	Physician in Charge
Llewellyn Sale, M.D.	} Physicians to Out Patients
Jerome E. Cook, M.D.		
Frank N. Wilson, M.D.		
Levi H. Fuson, M.D.	} Assistant Physicians to Out Patients
William A. Smith, M.D.		
Lyman C. Stocking, M.D.		

* On leave of absence.

Gastro-Intestinal Division

R. Walter Mills, M.D.	Physician in Charge
Joseph W. Larimore, M.D.	} . . . Physicians to Out Patients
Leith H. Slocumb, M.D.	
Allan A. Gilbert, M.D.	} . Assistant Physicians to Out Patients
Frank D. Gorham, M.D.	
Carl A. W. Zimmermann, M.D.	

Tuberculosis Division

Jacob J. Singer, M.D.	Physician in Charge
Adolph M. Frank, M.D.	} . . . Assistant Physicians to Out Patients
Gustav Reinhardt, M.D.	
Adelheid C. Bedal, M.D.	
Frances Bishop, M.D.	

Surgery

Ernest Sachs, M.D.	Chief of Clinic
Arthur O. Fisher, M.D.	} . . . Surgeons to Out Patients
Barney Brooks, M.D.	
Roland F. Fisher, M.D.	} . . . Assistant Surgeons to Out Patients
Edwin P. Lehman, M.D.	
Willard J. Hans, M.D.	

Obstetrics and Gynecology

Grandison D. Royston, M.D.	Chief of Clinic
Quitman U. Newell, M.D.	Surgeon to Out Patients

Pediatrics

Philip C. Jeans, M.D.	Chief of Clinic
Theodore C. Hempelmann, M.D.	} Physicians to Out Patients
Adrien S. Bleyer, M.D.	
Jean V. Cooke, M.D.	
Hugh McCulloch, M.D.	
Samuel W. Clausen, M.D.	
Phelps G. Hurford, M.D.	
Maurice J. Lonsway, M.D.	Assistant Physician to Out Patients

Neurology

Sidney I. Schwab, M.D.	. . . . .	Chief of Clinic
Francis M. Barnes, M.D.	}	. . . . . Physicians to Out Patients
Michael Kasak, M.D.		

Dermatology

Martin F. Engman, M.D.	. . . . .	Chief of Clinic
William H. Mook, M.D.	}	. . . . . Physicians to Out Patients
Richard Weiss, M.D.		
Adolph H. Conrad, M.D.	}	. . . . . Assistant Physicians to Out Patients
Vischer V. Wood, M.D.		
Aloys S. Heithaus, M.D.		

Orthopedic Surgery

Nathaniel Allison, M.D.	Chief of Clinic
Archer O'Reilly, M.D.	Surgeon to Out Patients
Charles A. Stone, M.D.	} Assistant Surgeons to Out Patients
Marion L. Klinefelter, M.D.		
Frank H. Ewerhardt, M.D.		
J. Edgar Stewart, M.D.		
Warren R. Rainey, M.D.		

Ophthalmology

Arthur E. Ewing, M.D.	Chief of Clinic
Meyer Wiener, M.D.	} Surgeons to Out Patients
Julius H. Gross, M.D.		
John Green, Jr., M.D.		
William E. Shahan, M.D.		
William F. Hardy, M.D.		
Frederick O. Schwartz, M.D.		
Frederick P. Parker, M.D.		
William C. Owen, M.D.		
M. Hayward Post, M.D.		
Harvey D. Lamb, M.D.		
Max W. Jacobs, M.D.	} Assistant Surgeons to Out Patients
Lawrence Post, M.D.		
Dorcas F. Meadows, M.D.		
Amalie M. Napier, M.D.		
Leverett H. Crapp, M.D.		

Otology

Albert F. Koetter, M.D.	Chief of Clinic
Harry W. Lyman, M.D.	}	. . . Surgeons to Out Patients
Louis K. Guggenheim, M.D.		
David E. Furnall, M.D.	}	. . . Assistant Surgeons to Out Patients
George E. Hourn, M.D.		
Isaac D. Kelley, M.D.		
Arthur W. Proetz, M.D.		
George A. Griot, M.D.		
Stanley S. Burns, M.D.	}	

Laryngology

C. Armin Gundelach, M.D.	Chief of Clinic.
H. Edward Miller, M.D.	}	. . . Surgeons to Out Patients
Millard F. Arbuckle, M.D.		
Alphonse F. Dames, M.D.		
William M. C. Bryan, M.D.		
Richard J. Payne, M.D.	}	. . Assistant Surgeons to Out Patients
Ulysses S. Short, M.D.		
Lemuel B. Short, M.D.		
Monte Meyers, M.D.		
George Cerny, M.D.		
George A. Griot, M.D.		
Albert E. Rives, M.D.	}	

Genito-Urinary Surgery

John R. Caulk, M.D.	. . . . .	Chief of Clinic
H. McClure Young, M.D.	}	. . . Surgeons to Out Patients
Harry G. Greditzer, M.D.		
Newton W. Amos, M.D.	}	. . . Assistant Surgeons to Out Patients
Benjamin F. May, M.D.		

DEPARTMENT OF NURSING

Julia C. Stimson, A.M., R.N.	Superintendent, Washington University Training School
------------------------------	-----------	---

Helen L. Bridge, B.S., R.N.	Acting Superintendent, Washington University Training School
Stella Price, R.N.	Head Nurse, Washington University Dispensary

SOCIAL SERVICE

Ethel Riddle, A.M.	Head Worker
----------------------------	-------------

THE ST. LOUIS CITY HOSPITAL

Visiting Physicians and Surgeons to the City Hospital* and other City institutions are designated by Washington University to act as follows:

Medicine

George Dock, M.D.	Consulting Physician
Albert E. Taussig, M.D.	Chief of Staff
Jerome E. Cook, M.D.	} . . . Associate Physicians
Frederick T. Fahlen, M.D.	
Walter Fischel, M.D.	
Llewellyn Sale, M.D.	
Oliver H. Campbell, M.D.	
Lionel S. Luton, M.D.	
Visscher V. Wood, M.D.	

Surgery

Fred T. Murphy, M.D.	Consulting Surgeon
Ernest Sachs, M.D.	Acting Consulting Surgeon
Arthur O. Fisher, M.D.	Chief of Staff
Walter C. G. Kirchner, M.D.	} . . Associate Surgeons
Charles E. Hyndman, M.D.	
Ellis Fischel, M.D.	
Leon C. McAmis, M.D.	

* Appointed by the City upon the nomination of the University.

Obstetrics and Gynecology

Henry Schwarz, M.D.	Consulting Surgeon
George Gellhorn, M.D.	Chief of Staff
Fred J. Taussig, M.D.	} Associate Surgeons
William Kerwin, M.D.	
Raymond M. Spivy, M.D.	

Pediatrics

Borden S. Veeder, M.D.	Consulting Physician
Theodore C. Hempelmann, M.D. . .	Chief of Staff
Adrien S. Bleyer, M.D.	Associate Physician

Neurology

Francis M. Barnes, Jr., M.D. }	} . . . Associate Physicians
Malcolm A. Bliss, M.D.	

Dermatology

Martin F. Engman, M.D.	Chief of Staff
William H. Mook, M.D. }	} . . . Associate Physicians
John S. Kimbrough, M.D.	

Ophthalmology

Meyer Wiener, M.D.	Chief of Staff
Julius H. Gross, M.D.	Associate Surgeon

Laryngology and Otology

William E. Sauer, M.D.	Chief of Staff
Walter L. Johnson, M.D. }	} . . . Associate Surgeons
Stanley S. Burns, M.D.	
George E. Hourn, M.D.	

Orthopedic Surgery

Archer O'Reilly, M.D.	Chief of Staff
Charles A. Stone, M.D.	Associate Surgeon

Genito-Urinary Surgery

William M. Robertson, M.D. Chief of Staff
H. McClure Young, M.D. }
D. Buie Garstang, M.D. } Associate Surgeons

Dental Service

John H. Kennerly, M.D., D.D.S. . . Dentist

Infectious Disease Hospital

Borden S. Veeder, M.D. Consulting Physician
Theodore C. Hempelmann, M.D. . . Chief of Staff
Philip C. Jeans, M.D. }
Phelps G. Hurford, M.D. } Associate Physicians

City Sanitarium

Malcolm A. Bliss, M.D. Consulting Physician
Ernest Sachs, M.D. Consulting Surgeon

MEMBERS OF THE MEDICAL FACULTY, OF THE
DISPENSARY, AND OF THE AFFILIATED
HOSPITALS ENGAGED IN
MILITARY DUTY*

Dr. Fred T. Murphy, Major, M. O. R. C., Commanding Officer, U. S. Army Base Hospital No. 21, American Expeditionary Force, France (Washington University Base Hospital).

Dr. Philip A. Shaffer, Major, M. O. R. C., Sanitary Corps, American Expeditionary Force, France.

Dr. Eugene L. Opie, Major, M. O. R. C., France.

Dr. Borden S. Veeder, Major, M. O. R. C., U. S. Army Base Hospital No. 21, American Expeditionary Force, France (Washington University Base Hospital).

Dr. Nathaniel Allison, Major, M. O. R. C., France.

Dr. Vilray P. Blair, Major, M. O. R. C., special duty, Surgeon General's Office.

Dr. Malvern B. Clopton, Major, M. O. R. C., U. S. Army Base Hospital No. 21, American Expeditionary Force, France (Washington University Base Hospital).

D. Llewellyn Sale, Major, M. O. R. C., Base Hospital, Camp Wadsworth, N. C.

Dr. Walter Fischel, Major, M. O. R. C., U. S. Army Base Hospital No. 21, American Expeditionary Force, France (Washington University Base Hospital).

Dr. Oliver H. Campbell, Major, M. O. R. C., U. S. Army Base Hospital, Camp McArthur, Waco, Texas.

Dr. Sidney I. Schwab, Captain, M. O. R. C., U. S. Army Base Hospital No. 21, American Expeditionary Force, France (Washington University Base Hospital).

Dr. Harry S. Crossen, Captain, M. O. R. C., France.

Dr. Hugh McCulloch, Captain, M. O. R. C., U. S. Army Base Hospital No. 21, American Expeditionary Force, France (Washington University Base Hospital).

Dr. William H. Mook, Captain, M. O. R. C., U. S. Army Base Hospital No. 6, American Expeditionary Force, France.

* This list includes also the names of those who have resigned from the University in order to enter the national service.

Dr. Meredith R. Johnston, Captain, M. O. R. C., U. S. Army Base Hospital No. 21, American Expeditionary Force, France (Washington University Base Hospital).

Dr. Charles H. Eyermann, Captain, M. O. R. C., U. S. Army Base Hospital No. 21, American Expeditionary Force, France (Washington University Base Hospital).

Dr. Walter C. G. Kirchner, Captain, M. O. R. C., Fort Oglethorpe, Ga.

Dr. Raymond M. Spivy, Captain, M. O. R. C., U. S. Army Base Hospital No. 21, American Expeditionary Force, France (Washington University Base Hospital).

Dr. Lawrence Post, Captain, M. O. R. C., U. S. Army Base Hospital No. 21, American Expeditionary Force, France (Washington University Base Hospital).

Dr. M. Hayward Post, Captain, M. O. R. C., U. S. Army Base Hospital No. 33, Albany, N. Y.

Dr. Warren M. Rainey, Captain, M. O. R. C., U. S. Army Base Hospital No. 21, American Expeditionary Force, France (Washington University Base Hospital).

Dr. Isaac D. Kelley, Captain, M. O. R. C., North Midland Ambulance Division, British Expeditionary Force, France.

Dr. Alan M. Chesney, 1st Lieutenant, M. O. R. C., U. S. Army Base Hospital No. 21, American Expeditionary Force, France (Washington University Base Hospital).

Dr. Howard H. Bell, 1st Lieutenant, M. O. R. C., U. S. Army Base Hospital No. 21, American Expeditionary Force, France (Washington University Base Hospital).

Dr. Frank N. Wilson, 1st Lieutenant, M. O. R. C., special duty, England.

Dr. Quitman U. Newell, 1st Lieutenant, M. O. R. C., Fort Riley, Kans.

Dr. H. McClure Young, 1st Lieutenant, M. O. R. C., U. S. Army Base Hospital No. 21, American Expeditionary Force, France (Washington University Base Hospital).

Dr. William H. Olmsted, 1st Lieutenant, M. O. R. C., U. S. Army Base Hospital No. 21, American Expeditionary Force, France (Washington University Base Hospital).

Dr. Drew W. Luten, 1st Lieutenant, N. M. R., Naval Training Station, Great Lakes, Ill.

Dr. Joseph W. Larimore, 1st Lieutenant, M. O. R. C., U. S. Army Base Hospital No. 21, American Expeditionary Force, France (Washington University Base Hospital).

Dr. Edwin P. Lehman, 1st Lieutenant, M. O. R. C., U. S. Army Base Hospital No. 21, American Expeditionary Force, France (Washington University Base Hospital).

Dr. Millard F. Arbuckle, 1st Lieutenant, M. O. R. C., Base Hospital No. 41, British Expeditionary Force, France (Washington University Base Hospital).

Dr. Harry W. Lyman, 1st Lieutenant, M. O. R. C., Aviation Section, St. Louis, Mo.

Dr. Frederick B. Abbott, 1st Lieutenant, M. O. R. C., U. S. Army Base Hospital No. 21, American Expeditionary Force, France (Washington University Base Hospital).

Dr. Joseph F. Bredeck, 1st Lieutenant, M. O. R. C., Camp Cody, Deming, New Mexico.

Dr. James A. Brown, 1st Lieutenant, D. O. R. C., U. S. Army Base Hospital No. 21, American Expeditionary Force, France (Washington University Base Hospital).

Dr. Stanley S. Burns, 1st Lieutenant, M. O. R. C., U. S. Army Base Hospital, Camp McArthur, Waco, Texas.

Dr. Herman R. Cole, 1st Lieutenant, M. O. R. C., U. S. Army Base Hospital, Camp Meade, Md.

Dr. Carl W. Eberbach, 1st Lieutenant, M. O. R. C., U. S. Army Base Hospital No. 21, American Expeditionary Force, France (Washington University Base Hospital).

Dr. Roland F. Fisher, 1st Lieutenant, M. O. R. C., U. S. Army Base Hospital No. 21, American Expeditionary Force, France (Washington University Base Hospital).

Dr. Adolph M. Frank, 1st Lieutenant, M. O. R. C., Sanitary Division, 327th Infantry, Camp Gordon, Atlanta, Ga.

Dr. Levi H. Fuson, 1st Lieutenant, M. O. R. C., U. S. Army Base Hospital No. 21, American Expeditionary Force, France (Washington University Base Hospital).

Dr. Allan A. Gilbert, 1st Lieutenant, M. O. R. C., U. S. Army Base Hospital No. 21, American Expeditionary Force, France (Washington University Base Hospital).

Dr. P. P. Green, 1st Lieutenant, M. O. R. C., U. S. Army Base Hospital No. 21, American Expeditionary Force, France (Washington University Base Hospital).

Dr. George A. Griot, 1st Lieutenant, M. O. R. C.

Dr. Aloys S. Heithaus, 1st Lieutenant, M. O. R. C.

Dr. John A. Judy, 1st Lieutenant, N. M. R.

Dr. Noble DuBois McCormack, 1st Lieutenant, M. O. R. C.

Dr. John H. Murphy, 1st Lieutenant, M. O. R. C.

Dr. Richard J. Payne, 1st Lieutenant, M. O. R. C.

Dr. Arthur W. Proetz, 1st Lieutenant, M. O. R. C., U. S. Army Base Hospital No. 21, American Expeditionary Force, France (Washington University Base Hospital).

Dr. J. Edgar Stewart, 1st Lieutenant, M. O. R. C., U. S. Army Base Hospital No. 21, American Expeditionary Force, France (Washington University Base Hospital).

Dr. Philip M. Stimson, 1st Lieutenant, M. O. R. C.

Dr. H. V. Weihrauch, 1st Lieutenant, M. O. R. C.

Dr. Floyd C. Rice, 1st Lieutenant, N. M. R., Peoria, Ill.

Dr. Frank D. Gorham, 1st Lieutenant, M. O. R. C.

Dr. V. V. Wood, Assistant Surgeon, U. S. Public Health Service, El Paso, Texas.

Dr. Henry St. Clair O'Donnell, 1st Lieutenant, M. O. R. C., Camp McPherson, Ga.

STUDENTS, 1917-18

STUDENTS ATTENDING GRADUATE AND SPECIAL COURSES

- Akaiwa, Hachiro.....Kyushu, Japan
M.D., Imperial University of Kyushu, 1907.
- Clancy, James Francis.....St. Louis
M.D., St. Louis University, 1912.
- Gowen, George Robert.....Walla Walla, Wash.
M.D., Southwestern Homeopathic Medical College and Hospital, 1909.
- Kuramitsu, Chojiro.....Kanazawa, Japan
M.D., Imperial University, Tokyo, 1908.
- Lauderdale, David Selva.....St. Louis
M.D., School of Medicine, Guadalajara, Mexico, 1917.
- Maness, William Grant.....Preston, Kans.
M.D., Missouri Medical College, 1893.
- McKinney, Frank Lecortis.....Galena, Kans.
M.D., University Medical College of Kansas City, 1908.
- Sherfey, Carl Wagner.....Lincoln, Neb.
M.D., Cotner University Medical College, 1917.
- Snell, Lewis Clark.....Ritchey, Mo.
M.D., University Medical College of Kansas City, 1900.
- Stanton, Frederic Moses.....Columbus, Ohio
M.D., Ohio State University College of Medicine, 1915.
- Suzuki, Yoshio.....Tennoji, Japan
M.D., Tokyo Jikeun Medical School, 1907.

FOURTH YEAR CLASS

- Andresen, Christian Andres.....Clara City, Minn.
A.B., Carleton College, 1914.
- Ball, Bertus Clyde*.....Mansfield, Tex.
B.S., Agricultural and Mechanical Coll. of Texas, 1914.
- Bergstrom, Jacob Wood.....Cedar City, Utah
A.B., University of Utah, 1916.

* These students served in France with the Washington University Base Hospital, Unit 21, and received credit toward their degree for the clinical experience they there acquired. A committee consisting of members of the Medical Faculty serving with the unit organized and gave the instruction, and recommended to the Medical Faculty the amount of credit to be assigned.

- Copher, Glover H. Troy, Mo.
A.B., University of Missouri, 1916.
- Cresswell, George Francis Potosi, Mo.
A.B., University of Missouri, 1916.
- Day, Anthony Bigelow St. Louis
B.S., Harvard University, 1913.
- Dean, James Reeve Madison, Wis.
- Fardy, Martin Joseph* Mukwanago, Wis.
B.S., Marquette University, 1914; M.S., University of Wisconsin, 1916.
- Gay, Lee Pettit* Ironton, Mo.
A.B., University of Missouri, 1916.
- Gillett, Wilbur Goodson Kingman, Kans.
A.B., University of Kansas, 1915.
- Hodges, Paul Chesley St. Louis
- Liljedahl, Elmer Nathaniel Red Oak, Iowa
A.B., State University of Iowa, 1915.
- Lueking, Henry Fremont* St. Louis
B.S., Washington University, 1916.
- Mahle, Arthur Edwin St. Louis
B.S., University of Minnesota, 1916.
- Maxey, Hugh Worthington Mt. Vernon, Ill.
- McKee, Joseph Wallace* Kansas City, Mo.
- Mitchell, William Leland* Staunton, Ill.
- Muench, Hugo, Jr.* St. Louis
A.B., Cornell University, 1915.
- Noble, Thomas Benjamin* Indianapolis, Ind.
B.S., University of Wisconsin, 1916.
- O'Keefe, Charles Darrell* Hannibal, Mo.
A.B., University of Missouri, 1916.
- Padget, Earl Calvin* Greenleaf, Kans.
B.S., University of Kansas, 1916.
- Palit, Barendra Kumar Calcutta, India
B.S., University of Wisconsin, 1913; M.S., 1916.

* These students served in France with the Washington University Base Hospital, Unit 21, and received credit toward their degree for such clinical experience as they there acquired. A committee consisting of members of the Medical Faculty serving with the unit organized and gave the instruction, and recommended to the Medical Faculty the amount of credit to be assigned.

- Pessel, Johannes Friedrich.....Belleville, Ill.
B.S., Washington University, 1916.
- Polk, George Merritt*.....Bushong, Kans.
A.B., College of Emporia, 1913.
- Rupe, Wayne Arthur.....Rockport, Mo.
A.B., University of Missouri, 1916.
- Shackelford, Horace Harvey.....St. Louis
A.B., University of Missouri, 1910; A.M., 1913.
- Stone, William Ernest.....Columbia, Mo.
A.B., William Jewell College, 1912.
- Stranquist, Ephraim Alvin.....Brigham City, Utah
B.S., University of Utah, 1916.
- Sundwall, Olof.....Fairview, Utah
A.B., University of Utah, 1916.
- Terrill, Edwin Harold.....Vandalia, Mo.
A.B., University of Missouri, 1915.
- Tesson, James Albert.....Kansas City, Mo.
A.B., University of Missouri, 1916.
- Withers, Sanford Martin*.....St. Louis

THIRD YEAR CLASS

- Allen, Duff Shederic.....Lebanon, Mo.
- Andersen, Hans Peter.....Toastrup, Denmark
- Atorthy, Noreesh Chandra.....Calcutta, India
A.B., University of Missouri, 1917.
- Batson, Oscar Vivian.....Sedalia, Mo.
A.B., University of Missouri, 1916.
- Baumgartner, Edwin A.....St. Louis
A.B., University of Kansas, 1910; A.M., 1911.
- Belcher, George Wilson.....Belleville, Ill.
B.S., Washington University, 1917.
- Blondin, Edward Alphonse.....St. Louis, Mo.
- Bond, Harry William.....Wheeling, W. Va.
B.S., University of Wisconsin, 1917.

* These students served in France with the Washington University Base Hospital, Unit 21, and received credit toward their degree for such clinical experience as they there acquired. A committee consisting of members of the Medical Faculty serving with the unit organized and gave the instruction, and recommended to the Medical Faculty the amount of credit to be assigned.

- Brooks, Arthur Charles.....St. Louis
B.S., Washington University, 1917.
- Brown, Egbert Eugene.....Cape Girardeau, Mo.
A.B., University of Missouri, 1916.
- Busiek, Urban Justus.....Farmington, Mo.
B.S., Washington University, 1917.
- Chapman, Warren Browning.....Diamond, Mo.
A.B., University of Missouri, 1917.
- Clay, Homer Tullock.....Farmington, Mo.
A.B., University of Missouri, 1917.
- Coleman, William Goodwin.....St. Louis
B.S., Washington University, 1917.
- Elliott, Benjamin Landis.....St. Louis
B.S., Washington University, 1915.
- Funkhouser, Selmes Paul.....St. Louis
- Geistweit, William Henry, Jr.....St. Louis
Ph.B., University of Redlands, 1915.
- Gilles, Clifford Lawrence.....Kansas City, Kans.
A.B., University of Kansas, 1917.
- Gundrum, Lawrence Kramer.....Casey, Iowa
B.S., Coe College, 1915.
- Hannon, Leo John.....Sturgeon Bay, Wis.
B.S., University of Wisconsin, 1917.
- Hashinger, Edward Hagerman.....Kansas City, Mo.
A.B., University of Kansas, 1917.
- Helmes, Lloyd Oscar.....St. Paul, Minn.
B.S., University of Wisconsin, 1917.
- Heuston, Howard Hull.....Agra, Okla.
- Hodges, Fred Jenner.....St. Louis
- Hopkins, Guy Huskinson.....Grand Junction, Colo.
A.B., Colorado College, 1915.
- Howard, Francis Clemont.....Fayette, Mo.
A.B., University of Missouri, 1915.
- Johnson, Glenn Delap.....Springfield, Mo.
B.S., Drury College, 1917.
A.B., University of Missouri, 1917.
- Knipmeyer, William Warren.....Frankfort, Mich.
A.B., University of Missouri, 1917.

- Kohlbray, Carl Otto.....St. Louis
B.S., Washington University, 1917.
- Krebs, Otto St. Clair.....Belleville, Ill.
B.S., Washington University, 1917.
- Lewis, George Vincent.....Columbia, Mo.
A.B., University of Missouri, 1917.
- Morrison, Marriott True.....St. Louis
- Munro, Edward Everett Hale.....Colorado Springs, Colo.
A.B., Colorado College, 1915.
- Murdoch, Raymond Lester.....O'Keene, Okla.
A.B., Cornell University, 1916.
- Pelz, Mort D.....St. Louis
- Pesetke, Samuel Edward.....St. Louis
- Plank, Howard Addison.....St. Thomas, N. D.
A.B., University of North Dakota, 1917.
- Potter, Lee George.....Mountain Grove, Mo.
A.B., University of Missouri, 1917.
- Raff, Arthur Ben.....Red Bud, Ill.
B.S., Washington University, 1917.
- Roantree, Robert Peter.....Parker, S. D.
B.S., University of Wisconsin, 1917.
- Rohlfing, Edwin Henry.....St. Louis
- Sparks, Abraham Jerome.....St. Louis
B.S., Washington University, 1917.
- Starry, Leo Joseph.....Madison, Wis.
B.S., University of Wisconsin, 1917.
- Thompson, Lloyd James.....St. Joseph, Mo.
A.B., University of Missouri, 1917.
- Trippe, Harrison Chamberlain.....Fristoe, Mo.
A.B., University of Missouri, 1917.
- Wahle, George Henry.....Marshfield, Wis.
A.B., University of Wisconsin, 1916.
- Walter, Archie Lester.....Rockport, Mo.
A.B., University of Missouri, 1916.
- Wander, William George.....St. Louis
B.S., St. Mary's College, 1905.
- Weiner, Morris.....Denver, Colo.
B.S., University of Wisconsin, 1917.

SECOND YEAR CLASS

- Adelsberger, Bransford Louis.....Waterloo, Ill.
Andrae, Robert Lee.....St. Louis
Asami, GoichiYamaguchi, Japan
A.B., Leland Stanford, Jr., University, 1917.
Barker, Paul Shirmer.....St. Louis
A.B., Westminster College, 1915.
Black, Carl Ellsworth.....Jacksonville, Ill.
A.B., Illinois College, 1916.
Briggs, Clifton H.....Emporia, Kans.
Carr, Archie Dreyfus.....St. Louis
Carter, William Stokely.....Trenton, Ill.
Gaebe, Harold Carl.....Farmington, Mo.
Goldman, Alfred.....St. Louis
A.B., Washington University, 1916.
Grant, Samuel Becker.....St. Louis
Hudson, William Andrew.....Jasper, Ark.
Jostes, Frederick Augustus.....St. Louis
Kennedy, Patrick Harlan.....Youngstown, Ohio
Liggett, Hiram Shaw.....St. Louis
Meyer, Herman Moses.....Linneus, Mo.
Moore, Walter Roger.....Olathe, Kans.
Mudd, Stuart.....St. Louis
B.S., Princeton University, 1916.
Owen, Leonard Joseph.....Colorado Springs, Colo.
Penick, Grider.....Marshall, Mo.
A.B., Missouri Valley College, 1915.
Priest, Walter Scott.....Wichita, Kans.
A.B., University of Kansas, 1917.
Rumreich, Adolph Sylvester.....Pisek, N. D.
A.B., University of North Dakota.
Schiek, Charles Melvin.....Freeburg, Ill.
Tremain, Ernest Elwood.....Maplewood, Mo.
Wellmerling, Herman William.....Bloomington, Ill.
B.S., Illinois Wesleyan University, 1916.
White, Harvey Lester.....Normal, Ill.
Williams, Leo Lester.....Winfield, Kans.

FIRST YEAR CLASS

Altheide, John Paul.....	New Haven, Mo.
Arnovitz, Emanuel.....	Madison, Ill.
Balazs, Karl John.....	St. Louis
Brannon, Robert Mitchell.....	Greenville, Miss.
Chamberlain, Iris McKy.....	Springfield, Mo.
Cohen, Louis	St. Louis
Dyche, Frederick Ernest.....	Kingman, Kans.
Evans, Lester J.....	Clovis, N. M.
Grogan, Edward Benedict.....	Streator, Ill.

B.S., Knox College, 1913.

Hartmann, Alexis Frank.....	St. Louis
Kahn, Samuel Hermann.....	Dallas, Tex.
Kleinschmidt, Ralph Edwin.....	St. Louis
Lewis, William Benjamin.....	Granite City, Ill.
McKitterick, John Collins.....	Burlington, Iowa
Michael, William Alexander.....	Braymer, Mo.
Miller, Howard Stephens.....	Macon, Mo.

A.B., Westminster College, 1917.

Nelsen, Millard Tarsten.....	Vale, Ore.
Paddock, Richard.....	Terre Haute, Ind.
Potter, Allen Brewer.....	Liberty, Mo.

A.B., William Jewell College, 1916.

Rusk, Harvey Schenck.....	Brookfield, Mo.
Seifert, Louis John.....	Lamberton, Minn.
Spinzig, Edgar Walter.....	St. Louis
Stratton, Paul Vance.....	Salmon, Idaho
Summers, Caldwell Blanford.....	Harrisonville, Mo.
Thornton, Horace Edward.....	Pittsburg, Tex.
Wall, Albert.....	St. Louis
Weinsberg, William Charles.....	St. Louis
Zink, Oscar Charles.....	Belleville, Ill.

SUMMARY OF STUDENTS IN THE MEDICAL SCHOOL

Graduate Students	11
Fourth Year Class.....	32
Third Year Class	49

Second Year Class.....	27
First Year Class.....	28

Total, 147

DEGREES CONFERRED

The degree of Doctor of Medicine was conferred upon the following, June 14, 1917:

Abrams, Samuel Frank.....	St. Louis
B.S., Washington University, 1915.	
Brookes, Henry Spence, Jr.....	St. Louis
Brown, Clarence John.....	Plum City, Wis.
B.S., University of Wisconsin, 1915.	
Brown, Wilbur Kenneth.....	Troy, Ill.
A.B., Shurtleff College, 1913.	
Burchfiel, Cecil Munsey.....	Chickasha, Okla.
A.B., Southwestern College, 1914; B.S., University of Kansas, 1915.	
Callaway, Guy Drennan.....	Marshfield, Mo.
Dearing, Bradford French.....	Shelbyville, Ill.
Dinsmore, Robert Scott, Jr.....	Troy, Kans.
A.B., University of Kansas, 1914.	
Dorris, Richard Paul.....	Jefferson City, Mo.
A.B., University of Missouri, 1915.	
Garrison, George Blaine.....	Eureka, Kans.
A.B., University of Kansas, 1915.	
Haynes, Arthur Haislet.....	Sabetha, Kans.
A.B., University of Kansas, 1915.	
Kasak, Michael.....	St. Louis
B.S., University of Wisconsin, 1915.	
Kirby, Alexander Crump.....	Harrison, Ark.
A.B., University of Arkansas, 1913.	
McArthur, Guy B.....	Bloomville, N. Y.
A.B., University of Missouri, 1915.	
McNalley, Frank Powell.....	St. Louis
B.S., Washington University, 1915.	
Moran, Michael David.....	Madison, Wis.
B.S., University of Wisconsin, 1915.	

- Mueller, Robert St. Louis
B.S., Washington University, 1915.
- Myers, George Marshall St. Louis
B.S., Washington University, 1915.
- Netherton, Earl Weldon Gallatin, Mo.
A.B., University of Missouri, 1915.
- O'Donnell, Henry St. Clair Lawrence, Kans.
A.B., University of Kansas, 1915.
- O'Hora, Bernard Anthony Mazomanie, Wis.
B.S., University of Wisconsin, 1914.
- Peacock, Kenneth Cleland Oconomowoc, Wis.
B.S., University of Wisconsin, 1915.
- Robb, Edwin Flemming Kansas City, Mo.
A.B., University of Missouri, 1915.
- Schumacher, Harry William Altamont, Ill.
- Sheley, Nelson Warren Independence, Mo.
- Skemp, Archie Ambrose LaCrosse, Wis.
B.S., University of Wisconsin, 1915.
- Tormey, Albert Robert Madison, Wis.
A.B., University of Wisconsin, 1914.
- Wallace, Frank Barnett Holden, Mo.
B.S., Washington University, 1916.
- Wattenberg, John Edward Berger, Mo.
- Weathers, Bahnson Bynum, N. C.
B.S., Wake Forest College, 1915.
- Wrightman, Frederick Efner Sedalia, Mo.
A.B., University of Missouri, 1915.

And on February 2, 1918:

- Staley, Forest Henry Madison, Wis.
A.B., University of Wisconsin, 1914.

Upon the recommendation of the Committee of the Medical Faculty serving in France with the Washington University Base Hospital, Unit 21, and by special action of the Corporation, the following students, serving with Unit 21, were granted the degree of Doctor of Medicine, March 16, 1918:

- Ball, Bertus Clyde Mansfield, Tex.
B.S., Agricultural and Mechanical College of Texas, 1914.

- Fardy, Martin Joseph.....Mukwonago, Wis.
B.S., Marquette University, 1914; M.S., University of
Wisconsin, 1916.
- Gay, Lee PettitIronton, Mo.
A.B., University of Missouri, 1916.
- Lueking, Henry Fremont.....St. Louis
B.S., Washington University, 1916.
- McKee, Joseph Wallace.....Kansas City, Mo.
- Mitchell, William Leland.....Staunton, Ill.
- Muench, Hugo, Jr.....St. Louis
A.B., Cornell University, 1915.
- Noble, Thomas Benjamin.....Indianapolis, Ind.
B.S., University of Wisconsin, 1916.
- O'Keefe, Charles Darrell.....Hannibal, Mo.
A.B., University of Missouri, 1916.
- Padgett, Earl Calvin.....Greenleaf, Kans.
B.S., University of Kansas, 1916.
- Polk, George Merritt.....Bushong, Kans.
A.B., College of Emporia, 1918.

GRADUATES APPOINTED TO THE BARNES HOSPITAL
AND THE ST. LOUIS CHILDREN'S HOSPITAL

Medical Service

Wilbur Kenneth Brown	Kenneth Cleland Peacock
Henry St. Clair O'Donnell	Albert Robert Tormey

Surgical Service

Richard Paul Dorris	George Marshall Myers
---------------------	-----------------------

Obstetrical Service

Samuel Frank Abrams	Frank Powell McNalley
---------------------	-----------------------

Pediatric Service

Bradford French Dearing	Alexander Crump Kirby
Harry William Schumacher	

GENERAL STATEMENT

HISTORY AND ORGANIZATION

The Medical Department of Washington University, known since 1909 as the Washington University Medical School, continues the work of the St. Louis Medical College and the Missouri Medical College, the two oldest medical schools west of the Mississippi River.

The Medical Department of Kemper College of St. Louis was organized in 1840; in 1845 it became the Medical Department of the University of the State of Missouri. By change of its charter in 1855, it was made an independent institution known as the Missouri Medical College. The work of the School was discontinued in 1862, but was resumed in 1865 at the end of the Civil War.

The Medical Department of St. Louis University, founded in 1842, was chartered as an independent institution in 1855 under the name of the St. Louis Medical College.

The Medical Department of Washington University was created by the Corporation in 1891, when the St. Louis Medical College became a part of Washington University. In 1899 the Missouri Medical College was merged with this department.

Graduates of the St. Louis Medical College number 2125; of the Missouri Medical College, 2915; and of the Medical Department of Washington University, 751.

In 1910 the Corporation of the University, appreciating the value of the service which a medical school can give to the community, with the coöperation of the Medical Faculty, reorganized the School in all departments and appointed heads of departments and instructors in anatomy, physiology, biological chemistry, pathology, preventive medicine, medicine, surgery, and pediatrics, who devote themselves to teaching and research, and associated with this staff clinical instructors chosen from the medical profession of St. Louis. These changes were made with the aid of funds donated by philanthropic citizens of St. Louis.

More recently the sum of one and one-half million dollars has been contributed to the Medical School by the General Education

Board, Mr. John T. Milliken, Mrs. Mary Culver, and Mr. Edward Mallinckrodt. This sum has been divided into three equal parts designated as the John T. Milliken Fund for the Endowment of Clinical Teaching and Research in Medicine, the Mary Culver Fund for the Endowment of Clinical Teaching and Research in Surgery, and the Edward Mallinckrodt Fund for the Endowment of Clinical Teaching and Research in Pediatrics, respectively, and the income is devoted to the support of the departments named.

These endowments have enabled the Medical School to place the clinical departments of Medicine, Surgery, and Pediatrics upon the full university basis, under the direction and control of men devoting all of their time to university work. With them are associated practitioners of medicine giving part time to the work of the Medical School.

An affiliation has been established between the Barnes Hospital and the St. Louis Children's Hospital and Washington University, by which the University agrees to provide the medical staffs of the hospitals, and the hospitals agree to permit the University to use the hospitals for purposes of teaching and research. These hospitals have erected buildings on Kingshighway overlooking Forest Park, which became available for use in the autumn of 1914. Adjacent to the hospital buildings, a dispensary and large, thoroughly equipped laboratories have been built (see below). This close association enables the teaching staff of the University to give laboratory and clinical instruction, and to conduct and direct research in all branches of medicine in a single compact plant.

THE MEDICAL SCHOOL BUILDINGS

The three buildings of the Medical School are connected by corridor and tunnel with the Barnes Hospital and the St. Louis Children's Hospital. They are the Building for the Dispensary and Hospital Laboratories, the North Laboratory Building and the South Laboratory Building.

THE BUILDING FOR THE DISPENSARY AND HOSPITAL LABORATORIES is situated at the northeast corner of the hospital lot. The Dispensary occupies the first floor and basement, the Laboratory of Internal Medicine the second floor, and the Department of

Pathology the upper two floors, together with a western extension of the building connecting it with The Barnes Hospital, and containing the mortuary and the autopsy amphitheatre.

THE NORTH LABORATORY BUILDING on Euclid avenue opposite the Barnes Hospital contains the administrative offices of the Medical School, the Assembly Hall, the Library, and the Departments of Experimental Surgery, Comparative Pathology, and Anatomy.

THE SOUTH LABORATORY BUILDING is connected by corridor with the North Laboratory Building. It accommodates the Departments of Physiology, Pharmacology, and Biological Chemistry.

Unit systems prevail in the general construction of these buildings, and so far as advantageous in the fixtures and furnishings. Provision is made in all lecture rooms for the different methods of optical projection and for demonstrations involving the use of gas, water, electricity, and compressed air. Research laboratories and technicians' rooms are provided with forced-draft hoods, electricity, steam, and apparatus for controlling temperature. The attic space is utilized for the assembling of the air ducts from the chemical hoods and for the electric fans operating the draught. A steam still and tin-lined tanks for distilled water are located here, with block-tin pipes running from the tanks to the basement, with openings on each floor.

NURSES' HOME

This building is located on Kingshighway facing Forest Park, and just north of the Children's Hospital. It is of concrete construction and fireproof. On the first floor are a large reception room, a class room, and administrative offices. The upper floors are arranged to accommodate 80 to 90 nurses.

POWER PLANT

The power plant is located east of Euclid avenue and north of the North Laboratory Building. It furnishes light, heat, power, refrigeration, and compressed air to the buildings of the Medical School, the Dispensary, the Barnes Hospital, and the St. Louis Children's Hospital.

LIBRARY

The Library contains (October 1, 1917) 25,255 bound volumes and receives 400 of the most important medical periodicals, selected with reference to the needs of students and investigators. Of these 339 are in complete series. Including obsolete journals, there are 377 complete sets.

The Library has recently been enriched by the acquisition of several private collections. Among these are the library of the late Julius Pagel, Professor of the History of Medicine at the University of Berlin, the gift of the late Mrs. Benjamin Brown Graham of St. Louis. This comprises about twenty-five hundred titles, including many works on the history of medicine, medical biography, bibliography, terminology, medical sociology, and ethics. There is also the fine collection of the late Dr. John Green of periodicals and books relating to ophthalmology; that of the late Dr. W. E. Fischel, on internal medicine, and the library of the late Dr. Frank J. Lutz, Clinical Professor of Surgery, containing many valuable works on anatomy, surgery, medical history, and biography.

The Beaumont Room, adjoining the main reading room, contains manuscripts, letters, and other valuable material of the pioneer American physiologist, William Beaumont, presented to the University by his granddaughter, the late Lily Beaumont Irwin. The original notes made during the investigations on the stomach of Alexis St. Martin form part of the collection. Here also may be seen the portrait of Beaumont by Chester Harding.

Other libraries in St. Louis containing literature relating to medicine, which are available to students, either directly or through the Library of the School, are the following:

The Library of Washington University, Skinker road.

The St. Louis Medical Library, 3525 Pine street.

The St. Louis Public Library, Olive and Fourteenth streets.

The Library of the Missouri Botanical Garden, Shenandoah and Tower Grove avenues.

The Library of the St. Louis Academy of Science, 3817 Olive street.

The Mercantile Library, Broadway and Locust street.

MUSEUMS AND COLLECTIONS

In the Department of Anatomy is a museum for teaching and a collection of material used in investigation. The museum is combined with the class laboratories in order that specimens may be studied during class periods, as well as at other times. The present small group of anatomical preparations is the beginning of a museum planned to develop in a definite way. It comprises type specimens of adult organs and organic systems, specimens presenting variations, and preparations illustrating development. The collection contains an extensive series of osteological preparations, including a group of Indian crania and other material for anthropological study, vertebrate types, and microscopical sections, embryos, and models.

The Museum of Pathology contains specimens prepared and catalogued for use in the teaching of pathological anatomy. Specimens needed by any department of the School for demonstrations or lectures may be obtained from the museum under regulations similar to those in force in the Library. The Departments of Surgery and of Obstetrics and Gynecology have aided in the collection of material suitable for the teaching of these subjects and other special departments have the opportunity to coöperate in making similar collections. Diseases of bones are well illustrated by a large number of specimens collected during the early history of the School by Dr. Charles A. Pope and Dr. John D. Hodgen. A section of the museum contains experimental pathological lesions.

MEDICAL BULLETIN OF WASHINGTON UNIVERSITY

The Medical Bulletin contains the transactions of the Washington University Medical Society. Its distribution is limited, at present, to the libraries of medical schools and certain other scientific institutions.

WASHINGTON UNIVERSITY MEDICAL SOCIETY

The Washington University Medical Society is conducted to promote the advance of medicine in the University and in the hospitals affiliated with it by the report and discussion of investigations undertaken in the laboratories and hospitals. Meet-

ings are held on the second Monday of each month during the academic year. The meetings are open to students of the School.

CLINICAL FACILITIES

The affiliation of the Barnes Hospital and the St. Louis Children's Hospital with the Washington University Medical School makes these institutions for teaching purposes integral parts of the Medical School. These hospitals offer opportunities for study and observation in every important branch of medicine, are closely connected with the Dispensary conducted by the University, which serves as the Out-Patient Department of these hospitals. This assures to the student unusual advantages in clinical work. The attending staffs of each hospital consist of the heads of the University Departments of Medicine, Surgery, Obstetrics, and Pediatrics, with their assistants.

Free and pay patients may be admitted to either hospital, but every effort is made to prevent the pauperization of the individual, and patients who are able to pay are expected to meet the nominal rates in force.

In both hospitals there is adequate laboratory equipment for the investigations necessary in diagnosis. In addition to the ward laboratories, there are special laboratories in the Department of Medicine with facilities for research workers.

THE BARNES HOSPITAL

The buildings of the Barnes Hospital are situated upon a lot 837 feet in length, which runs from Kingshighway on the west to Euclid avenue on the east, facing Forest Park on the south and west. The group of hospital buildings proper consists of a central administration building, from which extend corridors leading to the medical and surgical wards, and to a private pavilion and service buildings. These buildings are of fire-proof construction.

The main entrance of the administration building opens upon a spacious rotunda containing a bronze bust of the donor, Robert A. Barnes. On either side of this rotunda are situated the general information office, the administrative office, the trustees' room, offices of the superintendent, and rooms for the physician in chief.

The resident medical staff is housed in the second and third stories of this building. On the top floor is the operating pavilion and the lecture room for the Medical Department. The arrangement of the operating pavilion is such that the incoming patients may be conducted to the etherizing rooms by way of a separate corridor and are not brought into contact with the routine work of the department. There are one large and three small operating rooms, a small amphitheater, rooms for special examinations, offices of the surgeon in chief, dressing rooms, and workroom for the nurses. To the north of the administration building is the service building containing kitchens, dining-room, bakery, and rooms for the hospital employees, behind which the laundry occupies a separate building.

The building at the west of the hospital lot facing Forest Park both on the south and west is the private pavilion. Its separate entrance on Kingshighway gives to service the convenience of a private hospital with all the advantages of a general hospital.

The wings containing the wards of the hospital are situated on either side of the administration building. They are three stories high and have the shape of the letter T. On either side of the wards are porches for convalescent and bed patients.

With the space in the private pavilion the initial capacity of the Barnes Hospital is approximately 220 beds. Sufficient space is reserved to increase this number materially.

The Hospital contains numerous class rooms, laboratories, lecture rooms, and examining rooms in addition to the accommodations usually found in general hospitals. Special provision has also been made for a modern equipment in the Departments of Actinography and Hydro- and Physical Therapy, and special wards and laboratories are provided for metabolic studies.

THE ST. LOUIS CHILDREN'S HOSPITAL

The St. Louis Children's Hospital, which is placed on the same tract as the Barnes Hospital, immediately northwest of it and facing Forest Park on the west, offers facilities for bedside study and instruction in the diseases of infancy and childhood, including the infectious diseases. It is built of grey brick and harmonizes in color and design with the adjacent buildings. The Hospital

has general medical wards, auditorium, and contagious wards with the accessory equipment of each.

The building devoted to general hospital work is five stories high and contains wards for general medicine, for infants, for general and orthopedic surgery, research laboratories, and rooms for the residents and internes. In connection with the third floor there is a large open-air ward on the roof of the auditorium building. In this part of the Hospital there are 120 beds.

The Building for Contagious Diseases contains 40 beds. The three floors may be isolated for the different contagious diseases. Accommodations have been made for mothers of sick children and to a limited extent for adults with infectious diseases.

Between the general hospital and the contagious building there is an auditorium two stories high, connected with the other two buildings. The out-patient department of the Hospital is located in the general out-clinic department of the Medical School.

A valuable adjunct to the St. Louis Children's Hospital is its Country Department, located on the Missouri Pacific Railway, one and one half miles from Valley Park. The hospital building of this department is of brick and concrete construction and fire-proof. It consists of two open wards, each to accommodate 25 children, overlooking the Meramec River to the south.

HOSPITAL FOR COLORED PATIENTS

Plans have been completed and specifications drawn for the erection of a new pavilion for colored patients, this building to be located on the hospital block between the Children's Hospital and the Service Building. Pending the construction of these quarters colored patients are being provided for in two houses situated upon the same lot with the main buildings and overlooking Forest Park. They have been renovated and such changes made as were necessary to provide for the medical, surgical, obstetrical, and pediatric services. The two buildings have a capacity of 25 beds.

WASHINGTON UNIVERSITY DISPENSARY

OUT-PATIENT DEPARTMENT OF THE BARNES AND ST. LOUIS CHILDREN'S HOSPITALS

The clinics, which in previous years have been held at the out-patient department of the Washington University Hospital, at

the O'Fallon Dispensary, and at the Saint Louis Children's Hospital, are now conducted in this single dispensary, which is an organic part of the Medical School, and is entirely controlled by the corporation of the University through a committee of the Medical Faculty. There were recorded in this dispensary during 1917, 126,964 visits. As in the Hospitals, the University Departments of Medicine, Surgery, Obstetrics, and Pediatrics are responsible for the care of patients. All clinical facilities are available for teaching purposes, and members of the third-year class in small sections work in these clinics under the supervision of the out-patient staff. The work of all services is facilitated by the coöperation of the Departments of Nursing and of Social Service.

SERVICE OF THE WASHINGTON UNIVERSITY MEDICAL SCHOOL IN THE CITY HOSPITALS

On November 1, 1914, Washington University, at the invitation of the authorities of the City Hospital, assumed control and became responsible for the medical care of one third of the patients in the City and Infectious Hospitals, and agreed further to render such professional service in the other municipal institutions as the Hospital Commissioner might request.

The physical equipment of the City Hospital is such that this service can be used to advantage for both undergraduate and graduate teaching, and the addition of this unit to the clinical facilities of the University broadens in a remarkable way the opportunities for teaching. By this coöperation, it is possible for the University to render a distinct service to the community and to the sick poor. The number of beds made available by this arrangement is approximately 375.

The general plan of organization of the Washington University unit of the City Hospital is the same as that in operation at the Barnes Hospital. Each department is organized with a chief of staff who is held responsible for the work of the department, and for the proper assignment of work to his associates.

DEPARTMENT OF SOCIAL SERVICE

The Social Service Work is conducted in the Washington University Dispensary, and in the Barnes and St. Louis Children's

Hospitals. The department is under the direction of the head worker and eleven paid assistants, each of whom has a special type of work under her care.

The medical students who volunteer in the department gain a knowledge of the living conditions of the poor which is of great value to them in their study of the diseases treated in the Dispensary, and their experience in working out the individual problems of the patients needing relief gives them an understanding of the social agencies of the community.

Members of the Training School for Nurses also have opportunities for volunteer work in the department.

REQUIREMENTS FOR ADMISSION

Candidates for entrance* will be required to have completed satisfactorily a standard four-year high school course, or its equivalent, and at least two full years of collegiate work, which must include the following:

1. **ENGLISH.** A course of at least three hours a week for one year is required.

2. **GERMAN.** A reading knowledge of the German language is required. The ground covered in collegiate courses of at least three hours a week for two years represents the training considered necessary to meet this requirement. Candidates for admission partly deficient in German may enter with a condition in this subject; the condition must be removed before the beginning of the second year of medical work.

3. **PHYSICS.** A course of at least eight unit hours of physics per week for one year, which must include quantitative work in the laboratory, is required.

4. **CHEMISTRY.** A full collegiate course of at least two hours of lectures and six hours of laboratory work for one year, or the equivalent, is required. Students in Washington University take two years of chemistry, including qualitative and quantitative analysis. Candidates for admission are advised to complete these courses, particularly quantitative analysis, before they enter the

* Beginning with the year 1918-19 women will be admitted upon the same terms as men.

Medical School. If they have not completed this work, they will be required to undertake similar courses during the first trimester of the first year in addition to the regular work of the medical curriculum.

5. BIOLOGY. A course of two hours of lectures and six hours of laboratory work a week for one year, upon the structure, functions, and life history of selected types of animal and plant life is required. Courses in botany and zoölogy will be accepted as fulfilling this requirement, provided the laboratory work has been adequate. The course should include laboratory instruction in elementary embryology.

Applicants for admission are required to submit credentials from the college in which they have studied. The statement from the college should enumerate the completed courses in those subjects which are required for admission to this School, and give the number of hours devoted to class and laboratory work in each. The degrees which have been received or the number of years of collegiate study successfully completed should also be stated. A blank form for recording these data will be furnished upon application.

No candidate will be admitted who cannot meet fully these requirements, except in German, when a partial deficiency may be allowed.

While two years of collegiate work, as in part above specified, fulfills the minimum requirement for entrance to the Medical School, the broader training afforded by additional years of academic work offers better preparation for the study and practice of medicine. Students intending to pursue the study of medicine should, if possible, complete the four-year college course before entering the Medical School.

Students in Washington University preparing to enter the Medical School who can devote only two years to preparation may follow one of two plans: either their studies may be selected without the intention of obtaining a bachelor's degree, or a course may be followed leading to the degree of Bachelor of Science.

Those students who do not wish to become candidates for the

B.S. degree may elect their two years of college work in accordance with the following schedule:

FRESHMAN YEAR		SOPHOMORE YEAR	
Chemistry 1.....	6 units.	Chemistry 12.....	3 units.
English 1.....	6 units.	German 3.....	6 units.
German 1.....	6 units.	Physics 2.....	8 units.
Zoölogy 1.....	6 units.	Zoölogy 4.....	3 units.
Elective	6 units.	Elective	12 units.

OPTIONS. German may be omitted by students who show evidence on examination of a reading knowledge of the language, but those presenting one foreign language only for admission must elect at least one year in an additional language.

BACHELOR OF SCIENCE

The degree of Bachelor of Science is conferred in the College on those students who have satisfactorily completed the two years of work described below, and have in addition received good grades in all the required courses of the first and second years in the Medical School.

Pre-Medical Curriculum Leading to the Degree of B.S.

FRESHMAN YEAR

General Descriptive Chemistry...	Chemistry 1.....	6 units.
Composition and Rhetoric.....	English 1.....	6 units.
Elementary German.....	German 2.....	10 units.
General Biology.....	Zoölogy 1.....	6 units.
Elective		6 units.
Physical Education.....	Phys. Ed. 1.....	—

SOPHOMORE YEAR

Qualitative and Quantitative

Analysis.....	Chemistry 12.....	3 units.
Organic Chemistry.....	Chemistry 21.....	6 units.
General Introduction to		
English Literature.....	English 11.....	6 units.
Advanced German.....	German 10.....	6 units.
Elementary Physics.....	Physics 2.....	8 units.
Embryology.....	Zoölogy 4.....	3 units.
Elective		4 or 6 units.
Physical Education.....	Phys. Ed. 2.....	—

The following options and restrictions are effective:

1. (a) Students presenting two years of high school German for entrance take German 3 and those presenting three years, German 6. In this case two electives totaling 12 units are required in the Freshman year, but a ten-unit language course may be substituted for these.

(b) If German only is presented for entrance an additional language must be elected in the Freshman year, and French 2 is advised.

(c) Freshman electives may be selected from the list of courses open to Freshmen given in the announcement of the College, and Sophomores may elect any course not specifically restricted to Juniors and Seniors, provided the prerequisites have been satisfied. Chemistry 17 and 26, and Zoölogy 2 are four-unit courses running through the year and especially designed for pre-medical students.

(d) Candidates for the B.S. degree are required to take additional work in the Medical School equivalent to those required courses of the medical curriculum (organic chemistry and embryology) for which they bring credit.

ADMISSION TO ADVANCED STANDING

Applicants for admission to advanced standing (1) must furnish evidence that the foregoing terms of admission in regard to preliminary training have been fulfilled, (2) must show that courses equivalent in kind and amount to those given in this School, in the year or years preceding that to which admission is desired, have been satisfactorily completed, and (3) must pass satisfactory examinations in those subjects in the work for which they have asked credit. These examinations may be waived at the discretion of the instructor in charge of the corresponding course. The applicant must have studied as a matriculated medical student in an acceptable medical school for a period of time at least equal to that already spent by the class to which admission is sought.

(a) Students who have received from an approved medical school credit for courses equivalent to those of the first year of this School in anatomy, chemistry, and physiology, will be admitted

to the second year class without examination but, at the discretion of instructors, may be examined in these subjects at the end of the second year. (b) Students who have received from an approved medical school credits in anatomy, chemistry, physiology, pharmacology, bacteriology, and pathology will be permitted (see § above) to enter the third year class, but no student may enter with a condition in any of these subjects. (c) Students who have received credit for courses in anatomy, chemistry, physiology, pharmacology, bacteriology, and pathology, equivalent to those given in this School, may (see § above) enter the fourth year class without examination in subjects of the third year, provided they have received credit for courses in medicine, surgery, and obstetrics, equivalent to those of the third year, but, at the discretion of the instructors, may be examined in these three subjects at the end of the fourth year.

Graduates of other medical schools, who are permitted to enter this School with advanced standing as candidates for the degree, are required (a) to pay the fees charged for the years in which they are in attendance, and (b) to fulfill the requirements for graduation, as stated in this announcement.

Applicants for advanced standing are required to furnish, in addition to the credentials required for admission, credentials from the medical school in which they have studied, enumerating the completed medical courses for which credit is asked and stating the number of completed years of medical work. A blank form of application for advanced standing will be furnished upon request.

ADMISSION OF GRADUATES IN MEDICINE

No regular courses are being given for graduate students. Graduate students may be admitted to the School, however, on the following basis. (1) Those who may be qualified to participate in definite investigation, under the direction of a member of the staff, may, upon the written recommendation of the instructor in charge, endorsed by the head of the department, be accepted by the Faculty as volunteer research assistants and will not be charged fees. (2) Visiting graduates may, with the consent of the heads of the departments concerned, take special work in one or more departments without paying fees. (3) A limited

number of graduate physicians or others, who may be qualified, may be admitted to courses with the undergraduate classes subject to the consent of the instructors and the head of the department. Fees for special courses, individual instruction, or material, will be determined by the Dean, in conference with the head of the department in which the work is done, in each case.

STANDING AND PROMOTION

To enter any course the student must have taken the required courses in the subjects which supply the preliminary preparation for that course. The subjects preliminary to each course are defined in the description of these courses.

In general final examinations are held only at the close of the year. (See Calendar).

Students who at the end of the first or second year have recorded against them failures in any two of the following subjects, dissection, histology with embryology and neurology, physiology, biological chemistry, pharmacology, pathology, or bacteriology, will be advised to withdraw from the School.

No student will be permitted to undertake the work of the third year who has failed in any one of the subjects named above or in topographical anatomy.

A student who at the end of the third year has failed in any two of the following subjects, medicine, physical diagnosis, clinical chemistry and microscopy, surgery, surgical pathology, or obstetrics, will be advised to withdraw from the School.

No student will be permitted to undertake the work of the fourth year who has failed in physical diagnosis, clinical chemistry and microscopy, or surgical pathology.

The minimum time in which the courses required for the degree of Doctor of Medicine can be taken is four years.

Graduates of Washington University Medical School are exempt from the first and second examinations of the Conjoint Board of the Royal College of Physicians of London and the Royal College of Surgeons of England.

REQUIREMENTS FOR GRADUATION

The candidates must be more than twenty-one years of age and of good moral character. They must have attended not less than

four annual courses of medical instruction as matriculated medical students, the last of which has been in this School. They must have taken all obligatory courses offered here, or their equivalent, and have received a satisfactory grade in the work of the entire four years. They must have discharged all indebtedness to the School and must be present when the degree is conferred.

At the end of the fourth year every student who has fulfilled these requirements will be recommended for the degree of Doctor of Medicine.

HOSPITAL APPOINTMENTS

In the second trimester of the year, internes for the Barnes Hospital and for the St. Louis Children's Hospital are selected by the Medical School.

The services begin July 1, and September 1, and are for one year. For 1917-18 these services are as follows:

Barnes Hospital

Medical Service, five positions.

Surgical Service, five positions.

Obstetrical Service, four positions.

St. Louis Children's Hospital

Three positions.

Besides these positions, which are in services controlled by the University, internes may be nominated by the Medical School for positions in the following hospitals:

St. Louis Mullanphy Hospital, two positions.

St. Luke's Hospital, one position.

St. Anthony's Hospital, one position.

Appointments to these positions are usually made from members of the fourth year class of the Medical School. While preference is shown members of the School or its graduates, graduates or members of the fourth-year class of other schools may apply for appointment, and in cases of unusual qualifications such men may be nominated for positions. Selection is made from those applying for positions on the basis of class standing in required work, upon evidence of special fitness as shown by work in elective courses, upon personal considerations, and, when desired by the Faculty, upon examination.

About seventy other appointments are made each year to internships in the various hospitals of St. Louis not connected with the University. The fourth-year students and graduates of this School may compete with those of other schools for these positions, which are filled upon the basis of examinations conducted by the respective boards of the hospitals.

PRIZES

TWO GEORGE F. GILL PRIZES are offered to the students of the School, viz.:

1. One prize of fifty dollars to be awarded at the end of the first year to the member of the class who shall have made the highest grade in anatomical work.

2. One prize of fifty dollars to be awarded to a member of the graduating class, of high general standing, who shall have done especially good work in the department of Pediatrics.

WINNERS OF PRIZES AND HONORS, 1916-17

Gill Prize in Anatomy

Stuart Mudd, B.S.

Gill Prize in Diseases of Children

Richard Anthony O'Hora, B.S.

FELLOWSHIPS AND SCHOLARSHIPS

A SURGICAL FELLOWSHIP has been established in the Department of Surgery for special neurological work. The income of this Fellowship is \$1200.00 per year.

TWO SURGICAL FELLOWSHIPS are available in the Department of Surgery for general work. The stipends for these fellowships vary somewhat, depending upon the experience of the applicant.

Application for these Fellowships should be made to the Registrar of the School.

THE GEORGE F. GILL SCHOLARSHIP, instituted in memory of the late Dr. George F. Gill, Clinical Professor of Pediatrics, entitles the holder to remission of the tuition fee to the amount of the Scholarship, namely, \$100.00.

The ALUMNI SCHOLARSHIP, instituted by the Alumni of Washington University Medical School, entitles the holder to the same remission of the tuition fee, namely, \$100.00.

Applications for these scholarships should be filed with the Registrar.

Two scholarships are available for students entering the first-year class in September, 1918. These scholarships entitle the holder to remission for one year of the tuition fee of \$200.00, and are designed to encourage men of ability to study medicine who could otherwise not afford to do so.

Applications for these scholarships should be sent to the Dean of the School not later than June 1, 1918. Each application should be accompanied by official transcripts of the high school and college records of the applicant, a statement as to why the scholarship is desired and personal statements (preferably from a college science teacher) of the quality of the applicant's work and an opinion of his fitness to undertake the study of medicine.

FEES AND EXPENSES

TUITION FEES. Before registration each student will be required to pay a matriculation fee of \$5.00, which is payable but once during the course of four years.

A charge of \$3.00 will be made against each student who fails to register before October 5, 1918.

Beginning July 1, 1918, the tuition fee will be \$200.00, payable in two equal installments, at the beginning of the first trimester and on February 1.

There are no laboratory fees.

DIPLOMA FEE. At the completion of the course a diploma fee of \$5.00 will be charged.

RENTAL OF MICROSCOPES. A microscope is needed by each student throughout each year in the School and is equally essential to the physician after graduation. Every student in the School should therefore purchase this instrument. The Medical School owns a limited number of microscopes which may be obtained at an annual rental of \$5.00 (oil immersion objective, \$2.50 additional) for each instrument. Students renting microscopes are held responsible for their return in good condition at the close of

each year. To students who have entered the School before September, 1916, microscopes will be furnished and a fee (\$5.00) charged only during the fourth year. Students must provide their own hemocytometers.

BREAKAGE DEPOSIT. Each student is required to pay \$10.00 to cover breakage. Any balance of this deposit will be returned at the end of each year. No student will be granted the use of the laboratories or apparatus of the School until the required deposit has been paid.

All fees and charges are payable in advance at the office of the Treasurer in University Hall. No rebate of the tuition fee can be made for absence, whether such absence occurs at the beginning, middle, or end of the trimester, except in cases of prolonged illness certified to by a physician. Checks should be made payable to Washington University.

STUDENT HEALTH

A physical examination is made of each student at entrance by a physician appointed by the Medical Faculty. This Physician to Students may be consulted daily. He keeps records of the physical condition of the students and treats their minor ills. In cases of serious sickness they are referred to their own physician or to specialists.

MEN'S DORMITORY

A dormitory building containing rooms for about sixty students has been erected on Forest Park Boulevard, in close proximity to Forest Park, one of the most attractive localities in the city. There is a tennis court in the rear of the building, and there are public golf links, tennis courts and baseball grounds in Forest Park. Each room is fully furnished for occupancy and supplied with hot and cold water, light and heat. There is a social hall in the basement of the building.

The rental of a room is at the rate of \$10 a month, payable quarterly in advance. Applications for rooms may be made to the Registrar of the School.

GENERAL PLAN OF INSTRUCTION

Instruction in the Medical School is given to candidates for the degree of Doctor of Medicine and to graduate students who may or may not be candidates for higher degrees. Courses which are open to students in the University, not candidates for the degree of Doctor of Medicine, are described under "Courses of Instruction" in the catalogue of the College.

The course of study required of candidates for the degree of Doctor of Medicine extends over a period of at least four academic years, and is designed for students who have already received certain preliminary training. Believing that a broader education is essential to the successful study and practice of medicine, the School has increased its requirements for entrance, and the course of study has been correspondingly rearranged. As stated in detail on pp. 68 ff., the student on entering the School must have completed two years of college work, which must include a knowledge of chemistry, physics, biology, and of the English and German languages. An entrance condition in German is allowed but must be removed before entering the second year. With this preliminary training, some of the work previously done in the Medical School, such as inorganic chemistry and qualitative analysis, may properly be omitted, and the time thus gained is devoted to a fuller and more thoughtful study of the subjects directly pertaining to medicine.

It is the aim of the School to prepare its students to become practitioners of medicine, the experience gained in the laboratories and hospitals serving as the basis for medical training and knowledge. The order of studies is arranged so that the more fundamental are placed in the beginning of the course.

The Academic year, extending from the last week of September to the first week in June, is divided into trimesters, each of about eleven weeks. The required work keeps the student occupied in laboratory, class-room, hospital, or dispensary about thirty hours each week, and demands outside preparation. As far as possible the work is so arranged as to leave free several half days each week, during which time those students who can profitably undertake

extra work are encouraged to take courses in the subjects of their greatest interest. Suitable optional courses are offered by each department in the School.

The curriculum of four years has been divided into three distinct periods, this division being based on the requirements of the student at a given time in the medical course.

The first period includes the first year and the first and second trimesters of the second year. During this time, the student studies the fundamental sciences of anatomy, biological chemistry, physiology, pharmacology, pathology, and bacteriology. For this first period, the whole interest of the student is concentrated on the fundamental essentials of medical education, and every effort is made to train the faculty of critical and independent observation. Anatomy and chemistry are studied during the first year. In the last trimester of this year, the study of physiology begins, and bacteriology is studied in preparation for work in pathology. In the first trimester of the second year practical anatomy is completed, while during the first two trimesters physiology, pharmacology, and pathology are studied. In the last trimester of this period, courses are introduced in physical diagnosis, case taking, medical observation, and in surgical technic, in preparation for the clinical work of the second period.

The second period, extending from the third trimester of the second year through the second trimester of the fourth year, is devoted primarily to clinical work. For the first half of this period, the student receives practical clinical instruction in the out-patient departments of medicine, surgery, or obstetrics, and attends clinics, lectures, and recitations. This work in the out-patient departments occupies from 6 to 8 hours per week. Patients are examined by the student and treated under the direction of the attending staff. During the second half of this period, the students are assigned to the wards of the Hospitals, and each section of the class serves a full trimester in the wards of medicine, surgery, or obstetrics and pediatrics. During the second period, courses are also given in clinical chemistry and microscopy, neurological pathology, surgical pathology, and experimental operative surgery. Special emphasis is placed upon the

study and treatment of patients. The patient is used as a means of demonstration in clinics and bedside instruction, and relatively little attempt is made to formulate information in lectures. Clinical work in the specialties is confined to the second half of the second period.

During the third and last period, which occupies the third trimester of the fourth year, there is no prescribed curriculum. The student must gain credit for 300 hours of work, 150 of which must be spent in some one department. It is expected that, during this period, the students will avail themselves of the opportunity to further any special interest they may have in any one of the fundamental sciences, or clinical subjects, and that some few may attempt a certain amount of original work. Fourth-year students whose mornings are occupied by prescribed studies will be required to elect 75 hours of work in not more than two departments.

COURSES OF INSTRUCTION*

Anatomy

Robert J. Terry, M.D.	Professor of Anatomy
Paul Y. Tupper, M.D.	Clinical Professor of Surgery
Charles H. Danforth, Ph.D. . . .	Associate Professor of Anatomy
Edwin A. Baumgartner, Ph.D. . .	Associate in Anatomy
Warren B. Chapman, A.B.	Student Assistant in Anatomy

First Year

1. *Anatomy of Vertebrates.* Selected types furnish material for dissection and microscopical study. Lectures on the results of comparative anatomical science and on the modern theories relating to organized structure accompany the laboratory course. One lecture or recitation and five hours of laboratory work a week throughout the year. 198 hours.

Professor Terry, Dr. Baumgartner

2. **EMBRYOLOGY.** An outline of human development in which special attention is given to early ova, implantation and formation of foetal membranes, attainment of body form, and post-natal changes. Microscopic preparations provide material for the study of germ cells in man and other animals; maturation, fertilization, and segmentation in the mouse; and the development of germ layers and organs in the mouse and pig. The microscopic work is supplemented by dissection of pig embryos and study of human embryos, models, and demonstrations. The significance of rudimentary structures and of certain congenital malformations is considered. Emphasis is laid upon the bearing of genetic studies. Nine hours a week in the first trimester. 108 hours.

Professor Danforth

3. **HISTOLOGY.** This course offers a grounding in the knowledge of the histological structure of the human body and includes some

* The titles of optional and elective courses are printed in italics.

instruction in microscopical technique. The subject embraces microscopical anatomy, histogenesis, and functional significance of the component structural elements of the tissues and organs. Students are provided with collections of selected histological preparations. Lectures, demonstrations, and recitations are correlated with the laboratory work. Three mornings a week in the first trimester. 144 hours.

Professor Danforth

4. *Cytology*. Facilities are offered in this course for an intensive study of cells and a review of current cytological problems. The subject includes the consideration of the finer structure and functional correlation of the nuclear and cytoplasmic elements, their role in the reaction of cells to environment, their differentiation with respect to the vital activities in the organism, and their significance in cell proliferation, growth, repair, cytomorphosis, development, and heredity. The subject matter is intended to serve as an introduction to histological research. Prerequisite, Anatomy, 1, 2, and 3, or their equivalents. Six hours of laboratory work a week in the third trimester. 66 hours.

Professor Danforth

5. *NEUROLOGY*. A laboratory and lecture course on the development and macroscopic and microscopic anatomy of the central nervous system and sense organs. Collections of sections through the brain stem, special Weigert and Golgi preparations, wax models, and embryological and adult material for dissection are provided. The gross dissection is followed by a study of neurohistology, of fiber tracts, nuclei, the interrelations of the neurone systems, and functional significance of special organs. Nine hours a week during the second trimester. 90 hours.

Professor Danforth, Dr. Baumgartner

6-7. *HUMAN DISSECTION*. The course offers opportunity for the systematic study of the structure of the human body. Each student is provided with material for the preparation and study of the muscles, joints, and skeleton; the viscera; the vascular system and peripheral nerves. Lectures and demonstrations on certain aspects of human anatomy serving to systematize the observations

made in the laboratory and to direct attention to human structure in relation to function, pathological change, medical and surgical application, variation and heredity are given from time to time during the year. Nine hours a week throughout the year. 297 hours.

Professor Terry, Professor Danforth, Dr. Baumgartner,
Mr. Chapman

Second Year

8. **TOPOGRAPHICAL ANATOMY.** Six hours a week in the first trimester are spent in laboratory study of the position and relations of organs. Sections, museum preparations, and models are used as material for study. 72 hours.

Professor Terry

9. **APPLIED ANATOMY.** The conventional surgical regions are considered and the skeleton, muscles, bloodvessels, nerves, and lymphatics are discussed from the surgeon's point of view. Lectures and demonstrations two hours during the third trimester. 24 hours.

Professor Tupper

10. *Advanced Course in Gross Anatomy.* Dissection of the human body, study of preparations and sections. Hours to be arranged.

Professor Terry

11. *Conferences in Anatomy.* One hour a week during the year.
Professor Terry, Dr. Baumgartner

12. *Conferences in Osteology.* One hour a week in the second trimester.

Professor Danforth

13. *Physical Anthropology.* Three hours of laboratory work with assigned reading. The objects of this brief course are to familiarize the student with the methods used in the study of physical anthropology and to awaken interest in research in this branch of anatomy. 33 hours. Prerequisite, Anatomy 1 and 6-7.

Professor Terry

14. *Anatomy of the Living Body.* In this course of lectures with demonstrations it is intended to treat collectively of those anatomical features which can be observed by inspection and palpation of the living body. First trimester. Prerequisite, Anatomy 1 and 6-7.

Professor Terry

15. *Anatomical Technology.* Opportunity is afforded for gaining experience in the ordinary methods of preparing material for study. Among the methods undertaken are: preservation of gross material, color injection, preparation of bones, the technique of fixing, embedding, cutting, and staining microscopical objects. Six hours of laboratory work in the third trimester. 66 hours.

Professor Danforth

16. *Investigation.* The department offers facilities for investigation in several branches of anatomical science and those qualified are encouraged to undertake research. Hours to be arranged.

17. *Anatomy Seminar.* For members of the staff and investigators. Bi-monthly throughout the year.

Biological Chemistry

Philip A. Shaffer, Ph.D. . . . Professor of Biological Chemistry

Benjamin M. Duggar, Ph.D. . . Acting Professor of Biological
Chemistry

Edward R. Allen, Ph.D. . . . Acting Associate in Biological
Chemistry

Horace H. Shackelford . . . Student Assistant in Biological
Chemistry

1. *Quantitative Analysis.* A laboratory course designed to acquaint the student with those principles of gravimetric and especially volumetric analysis, which form the basis for quantitative chemical work in the medical sciences. Principles and quantitative technique are emphasized rather than the study of applied analytical methods which are considered in Course 3. The course is required of those students who enter without credit in volumetric

analysis and is optional to others. First trimester, five hours a week. 60 hours.

Dr. Allen

2. ORGANIC CHEMISTRY. A short course of lectures and recitations intended to acquaint the student with the elements of the chemistry of carbon compounds, preparatory to Course 3. First trimester, three hours a week. 36 hours.

Dr. Allen

3. BIOLOGICAL CHEMISTRY. A systematic course of lectures, recitations, conferences, and laboratory work covering those portions of the subject which are of the greatest importance to the student of medicine. The laboratory work includes detailed study of the chemistry of fats, carbohydrates, and proteins; the synthetic preparation of a few organic substances; the analysis of the more important animal tissues and fluids; a study of the action of enzymes; the conduct of metabolism experiments by the student upon himself as illustrating some of the principles of nutrition; a study of the composition of important foods; and extended practice in chemical technique. During the latter part of the course, after reading the published records of original investigations, each student prepares a thesis upon a selected topic. So far as time permits the theses are presented to the class for discussion. Prerequisite: courses in chemistry required for entrance; Course 1 (Quantitative Analysis) and Course 2 (Organic Chemistry), or their equivalent. Second trimester, lectures and recitations four hours, and laboratory nine hours a week. Third trimester, lectures and recitations three hours, and laboratory eight hours a week. Lectures and recitations 73 hours, laboratory 178 hours.

Professor Shaffer, Professor Duggar, Dr. Allen,
Mr. Shackelford

4. *Advanced Work.* Courses of laboratory work and selected reading in Biological Chemistry will be arranged to suit individual needs.

5. *Research.* The facilities of the department are available to students qualified to undertake investigation in biological chemistry.

6. *Seminar.* Conducted jointly by the Departments of Physiology and Biological Chemistry. Meetings at which papers of current journals are presented and discussed. Open only to students who have credit in, or are taking, physiology or biological chemistry. Once a week throughout the year.

7. *Biochemical Preparations.* A laboratory course in the preparation, purification, and analysis of organic substances of biochemical interest and importance, offered especially for those students in the Medical School who are candidates for the Bachelor of Science Degree and who enter with credit in organic chemistry. Five hours a week in the laboratory, with assigned reading. First trimester of either the first or second year. 60 hours.

[Not offered 1917-18]

Physiology

Joseph Erlanger, M.D. . . . Professor of Physiology
Robert Gesell, M.D. . . . Associate Professor of Physiology
Herbert S. Gasser, M.D. . . . Instructor in Physiology
Paul C. Hodges Student Assistant in Physiology

First and Second Years

2. **PHYSIOLOGY.** Lectures. This course is designed especially to meet the needs of students of medicine, but is open to properly prepared students in the College. It consists of lectures, demonstrations and recitations covering systematically the field of human physiology. As far as practicable the lectures are descriptive of experiments demonstrated in the lecture room. Free use is made of charts, models, lantern slides, and records for the purpose of bringing to the attention of the student the experimental basis of those principles of the subject that do not lend themselves readily to experimental demonstration. Weekly recitations are held upon the subject matter of the lectures. The lectures begin in the third trimester of the first year and are continued during the first and second trimesters of the second year. Properly prepared students in the College and, under exceptional circumstances, medical students will be permitted to begin the course at the opening of the college year. The course is so arranged that students

are enabled to acquire some knowledge of anatomy, embryology, histology, neurology, and biological chemistry before the physiological aspects of the related topics are considered. The following subjects are covered in the lectures; muscle and nerve, central nervous system, senses, blood, circulation, respiration, secretion, digestion, nutrition, and reproduction. Only those students will be admitted to the course who have completed or have begun the study of anatomy and biological chemistry. 130 hours.

Professor Erlanger, Professor Gesell, Dr. Gasser,
Mr. Hodges

Second Year

3. **PHYSIOLOGY.** Laboratory Course. This course must be taken in conjunction with Physiology 2. The experiments are so arranged as to serve at one and the same time to illustrate the fundamental principles of physiology and to familiarize the student with the more important bio-physical methods employed in experimental physiology and medicine. The class works in groups of two. Each group has its individual table, which is supplied with all the apparatus necessary for the performance of the general experiments. To the groups is assigned in rotation the apparatus needed for the performance of special experiments. As far as practicable the students serve as subjects of the special experiments and study upon themselves by quantitative methods certain phases of the physiology of the circulation, respiration, central nervous system, vision, etc. The instruction in the laboratory is largely individual. Recitations and conferences are held once a week, at which the principles and the results of the experiments are critically discussed. Students are required to make careful notes of the experiments. First trimester of the second year. 130 hours.

Professor Erlanger, Professor Gesell, Dr. Gasser

4. *Demonstration Methods.* This course is designed primarily for students preparing to teach advanced physiology, and who may desire a wider experience in experimental physiology than can be gained in Courses 2 and 3. It consists mainly of experiments demonstrated in Course 2. The time and the amount of work are

not limited, except that assistance must be arranged for by definite engagements.

5. *Research.* The facilities of the laboratory will be offered to qualified students for the investigation of their own problems or of problems which the department is prepared to suggest.

6. *Journal Club.* The Journal Club, conducted conjointly by the Departments of Biological Chemistry and Physiology, meets once a week for the discussion of papers of physiological interest appearing in the current journals. This course is open to properly prepared students only. Once a week throughout the year.

Pharmacology

Dennis E. Jackson, Ph.D., M.D. . Associate Professor of
Pharmacology

Mort D. Pelz Student Assistant in
Pharmacology

1. PHARMACOLOGY. (a) Lectures, stereopticon illustrations, recitations, and demonstrations covering the general field of pharmacology. Special attention is given to the chief medicinal drugs. The specific action of each of these on the individual organs or functions of the body is studied in detail, the subject matter of the lectures being correlated with the work of the laboratory. Emphasis is laid on both the practical and the theoretical phases of the subject. Special attention is given to the methods of diagnosis and treatment of poisoning by the commoner drugs. Students are urged to keep in touch with the current literature dealing with the various drugs as they are taken up in the lectures. Prerequisite, Anatomy, Biological Chemistry, and Physiology 2 and 3. Third trimester of the second year. Courses (a) and (b) are required of medical students, but course (a) may be taken alone by special students. 44 hours.

Professor Jackson

(b) Laboratory Course. Students work in small groups and, so far as practicable, study in their own experiments all the pharmacological reactions which can be demonstrated by ordinary laboratory processes. The laboratory work is carried out almost

wholly on mammalian forms. Complete records of each experiment, giving all the data which do not lend themselves readily to graphic methods, are kept by the students and filed together with the tracings in permanent note books. Complete sets of apparatus for the individual experiments are supplied to each group of students. Two half days a week during the third trimester of the second year. 66 hours.

Professor Jackson, Mr. Pelz

2. *Advanced Course.* This consists of an experimental study of the pharmacological action of rare or selected drugs. Opportunity is given for a study of the methods and processes ordinarily used in pharmacological laboratories. Hours to be arranged.

Professor Jackson

3. *Research.* The facilities and equipment of the laboratory are open to those who wish to carry on original investigations. Special efforts have been made to secure a full collection of drugs. Hours to be arranged.

Professor Jackson

4. *History of Pharmacology.* This course consists of a series of six lectures. It is intended primarily for the Second-Year Class, but is open to all others who care to attend. Each lecture is fully illustrated by means of lantern slides. The course, optional to all students, will be given in relation to Course 1 (a) at times convenient for students of the Second-Year Class.

Professor Jackson

Pathology and Bacteriology

Eugene L. Opie, M.D. . . Professor of Pathology
Montrose T. Burrows, M.D. Associate Professor of Pathology
Noble P. Sherwood, A.M. . Acting Associate Professor of
Bacteriology
Howard H. Bell, M.D. . . Instructor in Pathology
Frank I. Darrow, M.D. . . Assistant in Pathology
Leo C. Bean, M.D. . . . Assistant in Pathology
Yoshio Suzuki, M.D. . . . Voluntary Research Assistant in
Pathology

First Year

1. BACTERIOLOGY. This course is a general survey of the entire field of bacteriology from the biological point of view. Special attention is given to the subjects of fermentation, putrefaction and toxin production, sterilization and disinfection, and the nature of infection and its effects. In the laboratory the methods of observing and staining bacteria and methods of bacteriological diagnosis are taught. Eleven hours a week during the third trimester. 121 hours.

Professor Burrows, Dr. Bean, Dr. Darrow

Second Year

2. PATHOLOGY. Prerequisite courses for pathology are represented by the required work of the first year in anatomy, biological chemistry, and bacteriology. Graduate students in the College whose major work lies in biology may elect pathology as a minor at the discretion of the department concerned. The course is subdivided as follows:

(a) LECTURES AND LABORATORY WORK. Instruction includes lectures, demonstrations, recitations, and work in the laboratory. General pathology will be taught by lectures given in association with the study of the gross and histological characters of the lesions concerned and will be illustrated by such experiments as are suited to class instruction. Pathological histology will be studied by means of sections stained for microscopic examination by the student, supplemented by specially prepared specimens which are loaned; students are urged to describe and to draw the lesions they find. Lectures and laboratory work, 11 hours a week in the first trimester and 14 hours in the second trimester. 272 hours.

Professor Opie, Professor Burrows, Dr. Bean, Dr. Darrow

(b) RECITATIONS. The work of each week is reviewed by a recitation, in which effort is made to determine how accurately the student has grasped the subjects studied in the laboratory and their relation to general considerations not adapted to demonstration before the class. One hour a week. 22 hours.

Professor Opie, Professor Burrows

(c) CONDUCT OF AUTOPSIES. Whenever material is available autopsies are performed before the class. Students are instructed in the methods of post-mortem examination and in small groups have opportunity to practice the methods employed. Special attention is given to the preparation of orderly records.

Professor Opie, Professor Burrows, Dr. Bean, Dr. Darrow

(d) GROSS PATHOLOGY. Fresh pathological tissues are demonstrated to the class divided into small sections, and students study by personal contact the lesions which occur. Fresh material is supplemented by organs preserved as museum specimens. By means of sections prepared by freezing, the relation of gross to histological changes is defined. One or two hours once a week. 44 hours.

Professor Burrows, Dr. Bean, Dr. Darrow

3. LECTURES ON INFECTION AND IMMUNITY. Lectures on the nature of infection and immunity will be given in the first trimester of the second year. 24 hours.

Professor Burrows, Dr. Darrow

4. *Study of Serum Reactions.* The changes which occur in blood as the result of immunization will be studied in the laboratory. Students will perform reactions which demonstrate the existence of amboceptor and complement, precipitins, and other substances; they will determine the strength of an agglutinating serum, and will study the serum reactions used for the diagnosis of syphilis. Laboratory work, 2 hours a week during eleven weeks of the first trimester. 12 hours.

Professor Burrows, Dr. Darrow

5. CLINICAL AND PATHOLOGICAL CONFERENCE. The specimens and microscopical slides from all autopsies are studied with reference to the clinical histories. The important gross and microscopical lesions are described in detail with lantern slides. The medical and surgical aspects of the lesions are discussed before the class by the physicians and surgeons of the departments concerned. One hour a week for the three trimesters in the second and third years.

Professor Burrows, Dr. Bean, Dr. Darrow

6. *Clinical and Pathological Conference* for members of the staff and graduate students. The clinical histories are read objectively. Following this the autopsy findings are given in detail with lantern slides. The objects of the conference are to check the diagnosis and the results of treatment of cases dying in the hospital, to discuss improvements in method of treatment and diagnosis and the recent literature pertaining to the cases in question. One hour every week during the school year.

The Staffs of the Clinical and Pathological Departments

7. *Special Study and Research.* Those who have the training necessary for advanced work are encouraged to undertake special study of certain limited topics, for example, surgical pathology, the pathology of special organs or tissues, etc. Opportunity will be afforded for special research in histological pathology, experimental pathology, and bacteriology. The laboratory is provided with the apparatus usually employed in such investigation.

Comparative Pathology

Leo Loeb, M.D. Professor of Comparative Pathology

Chojiro Kuramitsu, M.D. . Voluntary Research Assistant in
Comparative Pathology

Hachiro Akaiwa, M.D. . . Voluntary Research Assistant in
Comparative Pathology

1. The department offers an elective course of four or five lectures on (a) the physiology of regeneration and transplantation of normal tissues, and (b) immunity in tumor growth. The lectures will be given during April or the early part of May.

2. Qualified students may be admitted to the laboratory for research in comparative pathology.

Medicine

George Dock, M.D. Professor of Medicine

Francis R. Fry, M.D. Clinical Professor of Neurology

Elsworth S. Smith, M.D. . . . Clinical Professor of Medicine

G. Canby Robinson, M.D. . . Associate Professor of Medicine

Albert E. Taussig, M.D. . . . Associate Professor of Clinical
Medicine

Sidney I. Schwab, M.D. . . .	Associate Professor of Clinical Neurology
Francis M. Barnes, Jr., M.D. . . .	Associate in Clinical Psychiatry
Walter Mills, M.D.	Associate in Clinical Medicine
Alan M. Chesney, M.D. . . .	Associate in Medicine
Malcolm A. Bliss, M.D. . . .	Instructor in Clinical Psychiatry
Walter Baumgarten, M.D. . .	Instructor in Clinical Medicine
Frederick T. Fahlen, M.D. . .	Instructor in Clinical Medicine
Jerome E. Cook, M.D. . . .	Instructor in Clinical Medicine
Llewellyn Sale, M.D. . . .	Instructor in Clinical Medicine
Louis H. Hempelmann, M.D. .	Instructor in Clinical Medicine
Frank N. Wilson, M.D. . . .	Instructor in Medicine
Jacob J. Singer, M.D. . . .	Instructor in Clinical Medicine
Walter Fischel, M.D. . . .	Assistant in Clinical Medicine
Frank H. Ewerhardt, M.D. . .	Assistant in Medicine
William H. Olmsted, M.D. . .	Assistant in Medicine
Joseph W. Larimore, M.D. . .	Assistant in Clinical Medicine
George Ives	Assistant in Clinical Medicine
Oliver H. Campbell, M.D. . .	Assistant in Clinical Medicine
Charles H. Eyermann, M.D. . .	Assistant in Clinical Medicine
Raleigh K. Andrews, M.D. . .	Assistant in Medicine
Michael Kasak, M.D. . . .	Assistant in Medicine
Leith H. Slocumb, M.D. . . .	Assistant in Clinical Medicine
Michael D. Moran, M.D. . . .	Assistant in Medicine

Second Year

1. PHYSICAL DIAGNOSIS. Demonstrations and practical exercises in the technique of physical diagnosis and in the interpretation of the signs elicited by inspection, palpation, percussion and auscultation in health. Second trimester. 44 hours.

Professor Robinson

2. ELEMENTARY MEDICINE. The course is composed of the following subdivisions:

(a) RECITATIONS IN MEDICINE. Based on reading of assigned chapters in a text-book of medicine. For 1918-19: Diseases of the Digestive System. 44 hours.

(b) CASE TAKING. Instruction in the preparation of clinical histories. 11 hours.

(c) PROPAEDEUTIC CLINIC. See Course 6 (c). 22 hours.
Professor Dock

4. PHYSICAL DIAGNOSIS. Elementary course. Demonstrations, recitations, and practical exercises in the physical diagnosis of thoracic and abdominal disease. Two hours a week during the third trimester. 22 hours.

Professor Taussig

Third Year

4a. PHYSICAL DIAGNOSIS. Practical training in the physical methods of diagnosis. This includes not only the ordinary methods of physical diagnosis but the technic and application of sphygmography, sphygmomanometry, fluoroscopy, and the like. Records and diagrams of the findings in all cases examined by members of the class are handed in and criticised. The class is divided into sections. Two hours a week during the first two trimesters. 44 hours.

Professor Taussig, Dr. Fahlen, Dr. Cook,
Dr. Fischel, Dr. Campbell

5. CLINICAL CHEMISTRY AND MICROSCOPY. A series of lectures and a laboratory course in methods of microscopic and chemical diagnosis. The subjects are the urine, blood, stomach contents, sputum, faeces, and puncture fluids. Material is obtained from cases in the hospitals and dispensaries. Considerable reading is required outside of laboratory hours. Six hours a week, first trimester. 77 hours.

Professor Robinson

6. MEDICINE. The course is composed of the following subdivisions:

(a) RECITATIONS IN MEDICINE. Continuation of Course 2 (a). This course, continued from the last two trimesters of the second year and completed at the end of the second trimester of the third year, aims at giving the student a theoretical knowledge of the most important internal diseases according to the current classi-

fication and ability to consult literature in the study of disease. Subjects that are abundantly illustrated in the wards or outpatient department are passed over rapidly, with special attention to etiology and pathology only. 33 hours.

Dr. Cook

(b) **MEDICAL DISPENSARY.** Clinical work is carried on by the students in groups. The students take histories and make physical and laboratory examinations, working in rotation in the general medical, gastro-intestinal, and pulmonary clinics. Two hours, three times a week, one trimester. 66 hours.

Professor Robinson, Dr. Mills, Dr. Schwab, Dr. Singer

(c) **PROPAEDEUTIC CLINIC.** The observation and interpretation of symptoms and signs in ward and dispensary patients, with special reference to pathological physiology and its relation to diagnosis. Pathological secretions and excretions, fluids, and other specimens derived from patients are studied in connection with other features of disease. One hour, once a week, during the first trimester; students who miss the second year continue through the second trimester of the third year. 11 hours or 22 hours.

Professor Dock

(d) **CLINICAL AND PATHOLOGICAL CONFERENCES.** The specimens from autopsies on medical patients are studied with reference to the clinical histories and the gross and microscopic anatomy. 33 hours.

Professor Dock, Professor Opie

7. *Advanced Work in Laboratory Diagnosis.* An elective course for those qualified. Undergraduates who can devote one entire trimester to the work and graduates in medicine with the necessary previous training who wish to investigate problems in clinical pathology are eligible. Hours to be arranged.

Professor Robinson

7a. **THERAPEUTICS.** A course designed to give the student a practical knowledge of the methods, the various drugs, and the

agencies employed in the treatment of disease. The general conditions under which each drug is used in pathological conditions, and its application are fully discussed. The action of such drugs as are indicated in certain diseases, and the best preparation to be used, are thoroughly considered. 22 hours.

Dr. Baumgarten

8. DIETETICS. Lectures and recitations upon foods, beverages, and condiments in health and disease. Second trimester. 11 hours.

Dr. Slocumb, Dr. Larimore

9. NEUROLOGY. The course in Neurology is composed of the following subdivisions:

(a) NEUROPATHOLOGY. Following a résumé of neural anatomy, the gross and microscopic lesions of disease of the nervous system are studied, with practical exercises in the examination and description of diseased tissues. First trimester. 22 hours.

Professor Schwab, Dr. Kasak

(b) CLINICAL NEUROLOGY AND PSYCHIATRY, INTRODUCTORY COURSE. Lectures and demonstrations on the clinical anatomy and physiology of the nervous system and allied subjects. Histories of actual cases will be used to illustrate the subjects which have been touched upon. First and second trimesters. 22 hours.

Professor Schwab

(c) NEUROLOGICAL DISPENSARY. Exercises in the methods of diagnosis and treatment of nervous and mental diseases, including electro-diagnosis and treatment. Two hours, once a week during one trimester. 22 hours.

Professor Schwab, Dr. Barnes, Dr. Kasak

Fourth Year

10. MEDICINE. The course is subdivided as follows:

(a) MEDICAL WARD WORK. The class is divided into three sections. Each student is in daily attendance three hours for eleven weeks. Ward rounds 9-10 a. m. daily. The students are

assigned cases in the medical wards and are required to write the histories and make physical and laboratory examinations, write résumés with diagnosis and prognosis and describe treatment in detail. The patients are examined, the work of the section scrutinized and criticized, methods of diagnosis and treatment discussed and practiced, and special reading assigned. The specimens from autopsies on medical patients are studied with reference to the clinical histories and the gross and microscopic anatomy. See Medicine 6 (d). 150 hours.

Professor Dock, Professor Smith, Professor Robinson
and Assistants

(b) CLINICAL CONFERENCES. Patients whose cases have been investigated by students working in the wards are presented before the class and diagnosis, pathology, and treatment discussed from various points of view. Once a week for one year. 33 hours.

Professor Dock

(c) A weekly clinic in which a series of subjects, such as gastrointestinal diseases, internal secretions, neurology, pulmonary tuberculosis, and the mechanism of the heart beat are presented. Material from the Out-Patient Department is presented by members of the dispensary staff. 33 hours.

Professor Robinson, Professor Smith, Professor Schwab,
Dr. Mills, Dr. Sale

11. NEUROLOGY. NEUROLOGICAL WARD AND OUT-PATIENT WORK. Practical exercises in diagnosis and treatment. 44 hours.

Professor Schwab

12. PSYCHIATRY. Demonstrations of selected cases of mental disease. Two hours a week, five weeks. 10 hours.

Dr. Barnes

13. *Diagnosis and Treatment of Diseases of the Digestive Tract.* The course consists of history taking and physical diagnosis of the abdomen, including radiology, fluoroscopy, plate reading, sigmoidoscopy, etc. Hours by special arrangement.

Dr. Mills, Dr. Larimore

14. *Diagnosis and Treatment of Heart Disease.* A practical course in the technique of polygraphic and electrocardiographic methods for the study of cardiac disorders; their use in diagnosis and treatment of heart disease will be considered. Open to a limited number of students. Hours by special arrangement.

Professor Robinson, Dr. Wilson

Dermatology

Martin F. Engman, M.D. . . Clinical Professor of Dermatology
William H. Mook, M.D. . . Instructor in Clinical Dermatology
Richard S. Weiss, M.D. . . Assistant in Clinical Dermatology

Third Year

(a) **DERMATOLOGY.** A lecture course on diseases of the skin and syphilis, by which the student will be prepared to understand clinical dermatology in the succeeding year. This course will be a general survey of the etiology, symptomatology, pathology, and treatment of skin diseases and the history and pathology of syphilis. Second trimester. 11 hours.

Professor Engman

Fourth Year

(b) **DERMATOLOGY.** A clinical course, conducted in the Dispensary, in which the student examines patients and is instructed in the diagnosis and treatment of diseases of the skin and syphilis. 33 hours.

Professor Engman, Dr. Mook

Medical Jurisprudence

George C. Mackay, LL.B. . . Instructor in Medical Jurisprudence

MEDICAL JURISPRUDENCE. A course given in the fourth year embracing medical evidence and testimony; expert testimony; dying declarations; rights of medical witnesses; establishing identity from living and dead bodies; sudden death from natural causes and by violence; criminal acts determined by medical knowledge; the legal relation of physician to patients and the public; insanity; and malpractice. 22 hours.

Surgery

Fred T. Murphy, M.D. . .	Professor of Surgery
Paul Y. Tupper, M.D. . .	Clinical Professor of Surgery
Harvey G. Mudd, M.D. . .	Clinical Professor of Surgery
Ernest Sachs, M.D. . . .	Associate Professor of Surgery
Nathaniel Allison, M.D. . .	Associate Professor of Clinical Orthopedic Surgery
Willard Bartlett, M.D. . .	Associate in Clinical Surgery
Vilray P. Blair, M.D. . . .	Associate in Clinical Surgery
Malvern B. Clopton, M.D. .	Associate in Clinical Surgery
John R. Caulk, M.D. . . .	Associate in Clinical Genito-Urinary Surgery
Barney Brooks, M.D. . . .	Associate in Surgery
Arthur O. Fisher, M.D. . .	Instructor in Clinical Surgery
Archer O'Reilly, M.D. . .	Assistant in Clinical Orthopedic Sur- gery
Walter C. G. Kirchner, M.D.	Assistant in Clinical Surgery
Charles E. Hyndman, M.D.	Assistant in Clinical Surgery
Charles A. Stone, M.D. . .	Assistant in Clinical Orthopedic Sur- gery
William M. Robertson, M.D.	Assistant in Clinical Surgery
H. McClure Young, M.D.	Assistant in Clinical Surgery
Omar R. Sevin, M.D. . . .	Assistant in Surgery
Edwin P. Lehman, M.D. . .	Assistant in Surgery
Sherwood Moore, M.D. . . .	Assistant in Surgery
Ellis Fischel, M.D.	Assistant in Clinical Surgery
—————*	Research Fellow in Surgery

Second and Third Years

1. INTRODUCTION TO SURGICAL PATHOLOGY AND SURGICAL TECHNIQUE. A laboratory course in which the process of repair incident to surgical wounds is studied in microscopical sections and in gross specimens. The students test and practice the various methods of sterilization of hands, instruments, etc., using bacterial cultures as checks on these methods. Five hours weekly during the second trimester of the second year. 55 hours.

Professor Murphy, Dr. Brooks

* To be appointed.

2. SURGERY. The course is subdivided as follows:

(a) SURGICAL OUT CLINIC. For one trimester, three times weekly, beginning with the third trimester of the second year, a third of the class serve as dressers in the Surgical Out Clinic. Cases are examined by the students and demonstrated to them. Under the supervision of the assistants, the students take histories, and apply dressings and bandages. 88 hours.

Professor Murphy, Professor Sachs, and Assistants

(b) SURGICAL RECITATIONS. A weekly recitation during three trimesters on assigned surgical reading. A standard text-book is followed, and so far as possible the essentials not given in other courses are covered. 33 hours.

Dr. Clopton, Dr. Hyndman

(c) OPERATIVE SURGERY. A three-hour exercise given weekly during the second trimester of the third year. Actual case histories are discussed, and the operation indicated from this discussion is performed on animals by the students. The surgical technique is as rigid as in the operating room. 33 hours.

Professor Sachs

(d) SURGICAL CLINIC. A weekly clinic throughout three trimesters. See Course 4 (b). 33 hours.

Professor Murphy, Professor Sachs

(e) SURGICAL CONFERENCE. The pathology, diagnosis, and treatment of surgical conditions, as illustrated by ambulatory out-patient cases, are discussed. A weekly exercise during three trimesters. 33 hours.

Professor Sachs, Dr. Fisher, Dr. Brooks

(f) GENITO-URINARY SURGERY. Lectures and recitations in genito-urinary surgery. Second trimester, third year. 11 hours.

Dr. Caulk

3. SURGICAL PATHOLOGY. A weekly exercise of two hours for three trimesters, at which specimens from the operating room and

from the museum are studied in gross and microscopically. When possible, case histories are presented with the specimens. 66 hours.

Dr. Brooks, Dr. Fisher, Dr. Sevin, Dr. Lehman

Third and Fourth Years

4. SURGERY. The course is subdivided as follows:

(a) **SURGICAL WARDS.** For one trimester the student serves as assistant in the surgical wards from 9 a. m. to 12 m. five days a week.

Rounds are made from 9 to 10 a. m. Professor Murphy and the Surgical Resident discuss the general surgical cases. Professor Sachs makes rounds on the special neurological cases once a week. Dr. Allison, Dr. Caulk, and Dr. Blair make rounds from time to time on their special cases.

The students, under the direction of the house staff, take case histories, make physical examinations, and the usual laboratory examinations. They assist at operations and with the anaesthetic, and do the routine surgical dressings. One day each week the group spends the period from 9 a. m. to 12 m. at the St. Louis Children's Hospital, where Dr. Allison demonstrates the orthopedic cases and Dr. Clopton the general surgical cases. 198 hours.

Professor Murphy, Professor Sachs, Professor Allison,
Dr. Clopton, Dr. Fisher, Dr. Sevin

(b) **SURGICAL CLINIC.** A weekly exercise throughout three trimesters. Students of the fourth year examine the patients and present the cases for discussion. Students of the third year attend this exercise. 33 hours.

Professor Murphy, Professor Sachs

(c) **LECTURES ON SURGERY.** Once a week for three trimesters. Lectures will be given by different men on subjects of special surgical importance and interest. 33 hours.

Professor Murphy, and others

5. **GENITO-URINARY OUT CLINIC.** The student serves as dresser in the Genito-Urinary Out Clinic six times a week for one half trimester under the same conditions as in Course 2. 33 hours.

Dr. Caulk and Assistants

6. **ORTHOPEDIC SURGERY.** Instruction is given at the Barnes Hospital and at the St. Louis Children's Hospital as described in Course 4 (a). Special lectures on this subject are given in Course 4 (c).

Professor Allison, Dr. O'Reilly

7. *Operative Surgery on the Cadaver.* Two hours weekly during the third trimester of the fourth year. Instruction is given by the actual practice of surgical operations performed on the cadaver. 22 hours.

Professor Tupper

8. *Advanced Operative Surgery.* Two-hour exercises are given once weekly during the first trimester of the fourth year. The students are instructed in the technique of special operations by performing these operations on animals under regulations of the surgical operating room, and then are encouraged to work at some unsolved surgical problem. 22 hours.

Dr. Bartlett

9. *Surgical Pathology.* Members of the Surgical Group of the third and fourth year classes take charge of the specimens which are received at the Surgical Laboratory and under the supervision of the staff describe the gross material and make the microscopic diagnosis.

Ophthalmology

Arthur Eugene Ewing, M.D. Clinical Professor of Ophthalmology
Meyer Wiener, M.D. . . . Associate in Clinical Ophthalmology
John Green, Jr., M.D. . . . Instructor in Clinical Ophthalmology
William E. Shahan, M.D. . . . Instructor in Clinical Ophthalmology
Julius H. Gross, M.D. . . . Instructor in Clinical Ophthalmology
William F. Hardy, M.D. . . . Instructor in Clinical Ophthalmology

(a) **OPHTHALMOLOGY.** Eleven lectures are given in the second trimester of the third year. Practical instruction is given to small sections of the fourth year class twice weekly during one trimester. Under the supervision of instructors, the students take histories,

make complete examinations, and carry out the routine treatment. 55 hours.

Professor Ewing, Dr. Wiener, and Assistants

(b) OPTHALMOLOGICAL PATHOLOGY. A course in pathology of diseases of the eye, consisting of lectures, demonstrations, and recitations, is given during the third trimester of the third year and first trimester of the fourth year. 22 hours.

Dr. Shahan

Otology

John B. Shapleigh, M.D. . . . Clinical Professor of Otology
Albert F. Koetter, M.D. . . . Associate in Clinical Otology
Harry W. Lyman, M.D. . . . Instructor in Clinical Otology
Louis K. Guggenheim, M.D. . . Assistant in Clinical Otology

OTOLOGY. Lectures are given to the Fourth-Year Class upon the anatomy and the more common diseases of the ear and are followed by practical instruction in sections in the methods of examination. Patients are assigned to students, who are required, under supervision, to make examinations and diagnoses, and carry out routine treatment. 55 hours.

Professor Shapleigh, Dr. Koetter, and Assistants

Laryngology and Rhinology

Greenfield Sluder, M.D. . . Clinical Professor of Laryngology
and Rhinology
William E. Sauer, M.D. . . Instructor in Clinical Laryngology
and Rhinology
H. Edward Miller, M.D. . . Instructor in Clinical Laryngology
and Rhinology
C. Armin Gundelach, M.D. Instructor in Clinical Laryngology
and Rhinology

LARYNGOLOGY AND RHINOLOGY. Eleven lectures are given during the second trimester of the third year. Small sections of the Fourth-Year Class receive practical instruction twice weekly in the Out-Patient Clinic. 55 hours.

Professor Sluder and Assistants

Obstetrics and Gynecology

Henry Schwarz, M.D.	. . . .	Clinical Professor of Obstetrics
Harry S. Crossen, M.D.	. . . .	Associate in Clinical Gynecology
George Gellhorn, M.D.	. . . .	Associate in Clinical Gynecology
Fred J. Taussig, M.D.	. . . .	Associate in Clinical Gynecology
Grandison D. Royston, M.D.	. . . .	Instructor in Clinical Obstetrics
Adolph G. Schlossstein, M.D.	. . . .	Assistant in Clinical Obstetrics
Quitman U. Newell, M.D.	. . . .	Assistant in Clinical Obstetrics
Otto H. Schwarz, M.D.	. . . .	Assistant in Clinical Obstetrics

Second and Third Years

1. **OBSTETRICS.** This course, beginning in the third trimester of the second year and ending in the second trimester of the third year, consists of recitations and demonstrations based upon assigned reading of a prescribed text-book and is supplemented by laboratory work and clinical exercises.

Instruction in the third trimester of the second year covers the anatomy and physiology of the female organs of generation, including the anatomy of the pelvis, ovulation and menstruation, fertilization, and development of the ovum, and serves as an introduction to all courses in Obstetrics and Gynecology.

The work of the first trimester of the third year deals with the physiology of pregnancy, labor, and the puerperium; the signs and symptoms of pregnancy are studied in the dispensary and on house patients; the mechanism of labor is demonstrated in the delivery room; puerperal involution, lactation, and the physiology of the newborn are taught in the lying-in wards and in the nursery.

The second trimester of the third year is devoted to the study of the pathology of pregnancy, labor, and the puerperium.

Throughout the entire course the students are drilled in obstetrical diagnosis, both by laboratory and by clinical methods, to prepare them for the clinical work in Obstetrics which begins with the third trimester of the third year.

(a) Recitations and Demonstrations. 55 hours.

Professor Schwarz, Dr. Royston

(b) Laboratory work and clinical exercises (in sections of one third of the class) four hours a week for eleven weeks. 44 hours.

Dr. O. H. Schwarz

2. GYNECOLOGY. Recitations and demonstrations covering the essentials and supplementing the practical work which is done in connection with Obstetrics 1. One hour a week during the first and second trimesters of the third year. 22 hours.

Dr. Gellhorn, Dr. Taussig

Third and Fourth Years

3. OBSTETRICS. The course is arranged as follows:

(a) Attendance on Obstetrical Cases. The obstetrical service furnishes more than 800 cases a year (over 250 hospital and about 600 out-clinic cases). To each student is assigned a minimum of fifteen cases which he watches during pregnancy, attends personally during delivery, and visits during the lying-in period; all work is done under supervision of instructors; the histories furnished by the students are discussed in clinical conference. Cases of special interest and those requiring major operations are delivered before the sections of the class and do not count towards the minimum requirement of fifteen cases for each student. From the beginning of the third trimester of the third year to the end of the second trimester of the fourth year (time exclusive of the hours allotted to Obstetrics in the general schedule).

Professor Schwarz, Dr. Royston, Dr. Schlossstein,
Dr. O. H. Schwarz, and Assistants

(b) Clinical Lectures on Selected Obstetrical and Gynecological Topics. One hour a week during the first and second trimesters of the fourth year. 22 hours.

Professor Schwarz

(c) Obstetrical and Gynecological Ward Work. Sections composed of one sixth of the class act as clinical clerks in the obstetrical and gynecological division of the Barnes Hospital for a period of five and a half weeks. The members of these sections, under the guidance of instructors, participate in the entire work of the division; they take histories and make examinations (including those of the laboratory); make ward rounds; perform minor operations under supervision and assist at major

operations; attend clinical conferences and manikin practice. Eighteen hours a week for five and a half weeks. 99 hours.

Professor Schwarz, Dr. Crossen, Dr. Royston,
Dr. Schlossstein, Dr. O. H. Schwarz

4. *Special Investigation and Research.* Carefully kept records of many thousand cases, large clinical material, excellent laboratory facilities, and a sufficient number of instructors enable the department to offer those who possess the necessary training an opportunity for original work under the guidance of instructors detailed for the purpose.

Pediatrics

W. McKim Marriott, M.D.* . . . Professor of Pediatrics
George M. Tuttle, M.D. . . . Clinical Professor of Pediatrics
Borden S. Veeder, M.D. . . . Clinical Professor of Pediatrics
Philip C. Jeans, M.D. . . . Associate Professor of Pediatrics
Jean V. Cooke, M.D. . . . Associate in Pediatrics
Adrien S. Bleyer, M.D. . . . Instructor in Clinical Pediatrics
Theodore C. Hempelmann, M.D. Instructor in Clinical Pediatrics
Hugh McCulloch, M.D. . . . Instructor in Pediatrics
Samuel W. Clausen, M.D. . . . Instructor in Pediatrics
Meredith R. Johnston, M.D. . . Assistant in Pediatrics
Phelps G. Hurford, M.D. . . . Assistant in Clinical Pediatrics

Second Year

1. (a) PEDIATRICS. During the last trimester of the second year two hours a week are devoted to recitations, demonstrations and lectures upon the growth and development of the normal infant and child and upon certain diseases peculiar to childhood or differing in their manifestations in the child as contrasted with the adult. 22 hours.

Third Year

1. (b) PEDIATRICS. The first trimester of the third year is devoted principally to the consideration and demonstration of the infectious diseases. 22 hours.

* On leave of absence (1917-18).

1. (c) PEDIATRICS. During the second trimester of the third year is considered the subject of nutrition, normal and abnormal, as related to infant feeding. 22 hours.

Professor Jeans and Dr. Hempelmann

Third and Fourth Years

2. PEDIATRICS. During the third trimester of the third year or during the first or second trimester of the fourth year, 13 hours a week for five and a half consecutive weeks section teaching is given in the wards of the St. Louis Children's Hospital and in the Out-Patient Children's Clinic. Patients are assigned for special study, following which the case is discussed before the section by an instructor. Practical work in milk analysis and milk modification is included in this course and likewise various measures, such as lumbar puncture, antitoxin administration, etc., which are extensively used in pediatric practice. 70 hours.

Professor Jeans and Instructors

3. PEDIATRIC CLINIC. A weekly clinic on Wednesday from 12 to 1 for the sections of the third and fourth-year class taking Medicine 10 and Surgery 4. 22 hours.

Professor Tuttle.

4. An elective course is given for fourth-year students in the last trimester. The details and outline of this course are arranged with each student or group electing it. Its general nature is that of research work. Major elective course. 150 hours.

Preventive Medicine

Third Year

1. PREVENTIVE MEDICINE AND HYGIENE. Lectures upon the transmission and prevention of infectious diseases (including the important tropical diseases), infant mortality, occupational diseases, the fundamentals of military hygiene, and some other subjects bearing upon the maintenance of health, will be given once a week during two trimesters. 22 hours.

Dr. Bleyer

2. PREVENTIVE MEDICINE. Lectures upon the transmission and prevention of certain diseases caused by bacteria will be given once a week during one trimester. 11 hours.

———, ———

Social Service

Third Year

1. **SOCIAL SERVICE.** Lectures and conferences upon various medical phases of Social Service will be given under the direction of the Faculty Committee for the Department of Social Service. These lectures and conferences will be conducted by various members of the Faculty, and of the Social Service Department, as well as by several qualified persons not connected with the University. Special emphasis will be laid upon the relation of social and medical problems in diagnosis and treatment, and upon the organization and use of medical and philanthropic institutions. The object of the course is to acquaint students with the methods of Social Service and to stimulate interest in the social aspects of medicine. One hour a week for one trimester.

TRAINING SCHOOL FOR NURSES

Julia C. Stimson, M.A., R.N. . .	Superintendent of Nurses
Helen L. Bridge, B.S., R.N. . .	Acting Superintendent of Nurses
Josephine B. Clark, R.N. . .	First Assistant
Olive H. Elliot, R.N.	Second Assistant
Erba Dillman, R.N.	Third Assistant
Ruth Cassels, M.A.	Instructor in Dietetics

The Washington University Training School is immediately under the management and direction of the University through the Executive Faculty of the Medical School. This co-ordination makes possible unusual opportunities for the adequate education of nurses.

During the preparatory course of six months, instruction is given in the laboratories and by the departmental staffs of the Medical School in anatomy, chemistry, physiology and bacteriology, and class room instruction and practice in all the fundamental nursing procedures are given by the nursing staff.

Following this preliminary course the student nurses are trained in the general medical and surgical wards, the private patients' building, the St. Louis Children's Hospital including its Contagious and Convalescent Departments, the Washington Univer-

sity Dispensary, the Obstetrical Department, the diet kitchen, and the operating pavilion.

The final period of six months may be devoted to special work in one or more of the following departments: Social Service, Hydro-mechano-therapy, Metabolism; or the pupil may continue the routine ward work in an executive capacity.

Throughout the three years' course, in addition to the practical instruction in the wards, series of lectures are given by the Hospital staffs and technical instruction by the staff of the Training School. Included in the curriculum is a required course in English which is given by the Department of English of the University.

Credit is given for the special preparatory courses offered by Columbia University, Simmons College, the University of Missouri, etc. A scholarship is available for a member of the Senior Class who may wish to take graduate work.

The separate catalogue of the Training School may be obtained upon application to the office of the Superintendent of Nurses, 600 South Kingshighway.

GENERAL SCHEDULES

WASHINGTON UNIVERSITY MEDICAL SCHOOL

1918-19

Schedule of First Year. First Trimester

HOURS	MONDAY	TUESDAY	WEDNESDAY	THURSDAY	FRIDAY	SATURDAY
9 to 10	Embryology Laboratory Anatomy 2			Histology Laboratory Anatomy 3		
10 to 11						
11 to 12						
12 to 1	Organic Chemistry Chemistry 2	Organic Chemistry Chemistry 2	Organic Chemistry Chemistry 2			
2 to 3		Dissection Anatomy 6-7		Dissection Anatomy 6-7		
3 to 4						
4 to 5						

Analytical Chemistry: Chemistry 1—Monday 3-5 p. m.; Wednesday 2-5 p. m. This course is required of those who do not present credit for Analytical Chemistry on admission.

WASHINGTON UNIVERSITY MEDICAL SCHOOL

1918-19

Schedule of First Year. Second Trimester

HOURS	MONDAY	TUESDAY	WEDNESDAY	THURSDAY	FRIDAY	SATURDAY
9 to 10	Biological Chemistry Laboratory Chemistry 8	Neurology Laboratory Anatomy 5			Biological Chemistry Laboratory Chemistry 8	
10 to 11						
11 to 12						
12 to 1			Biological Chemistry Lecture Chemistry 8			
2 to 3		Dissection Anatomy 6-7		Dissection Anatomy 6-7		
3 to 4						
4 to 5						

WASHINGTON UNIVERSITY MEDICAL SCHOOL

1918-19

Schedule of First Year. Third Trimester

HOURS	MONDAY	TUESDAY	WEDNESDAY	THURSDAY	FRIDAY	SATURDAY	
9 to 10	Biological Chemistry Laboratory Chemistry 3	Bacteriology Laboratory Pathology 1	Biological Chemistry Laboratory Chemistry 3	Bacteriology Laboratory Pathology 1	Biological Chemistry Laboratory Chemistry 3	Bacteriology Laboratory Pathology 1	
10 to 11							
11 to 12							
12 to 1	Physiology Lecture Physiology 2	Physiology Lecture Physiology 2	Bacteriology Lecture Pathology 1	Biological Chemistry Lecture Chemistry 3	Physiology Lecture Physiology 2	Physiology Lecture Physiology 2	
2 to 3	Bacteriology Lecture Pathology 1	Dissection Anatomy 6-7		Dissection Anatomy 6-7			
3 to 4							
4 to 5							

WASHINGTON UNIVERSITY MEDICAL SCHOOL

1918-19

Schedule of Second Year. First Trimester

HOURS	MONDAY	TUESDAY	WEDNESDAY	THURSDAY	FRIDAY	SATURDAY
9 to 10	Pathology Laboratory Pathology 2	Topographical	Pathology Laboratory Pathology 2	Topographical	Pathology	Pathology Recitation Pathology 2
10 to 11		Anatomy		Anatomy	Laboratory	Gross Pathology Pathology 2
11 to 12		Anatomy 8		Anatomy 8	Pathology 2	Lecture on Infection and Immunity Pathology 3
12 to 1		Physiology Lecture Physiology 2		Physiology Lecture Physiology 2	Physiology Lecture Physiology 2	Physiology Lecture Physiology 2
2 to 3	Physiology Recitation Physiology 3	Physiology Laboratory Physiology 3	Lecture on Infection and Immunity Pathology 3	Physiology Laboratory Physiology 3		
3 to 4						
4 to 5						

WASHINGTON UNIVERSITY MEDICAL SCHOOL
Schedule of Second Year. Second Trimester

1918-19

HOURS	MONDAY	TUESDAY	WEDNESDAY	THURSDAY	FRIDAY	SATURDAY
9 to 10	Pathology Laboratory Pathology 2	Medicine Recitation Medicine 2	Pathology Laboratory Pathology 2	Pathology Lecture Pathology 2	Pathology Laboratory Pathology 2	Pathology Lecture Pathology 2
10 to 11				Surgery Clinic Surgery 2		Gross Pathology Pathology 2
11 to 12				Propaedeutic Clinic Medicine 2		
12 to 1				Physiology Lecture Physiology 2	Physiology Lecture Physiology 2	History Taking Medicine 2	Physiology Lecture Physiology 2
2 to 3	Physical Diagnosis Medicine 1	Surgical Technique Surgery 1		Surgical Technique Surgery 1	Physical Diagnosis Medicine 1	
3 to 4						
4 to 5					Medicine Recitation Medicine 2	

WASHINGTON UNIVERSITY MEDICAL SCHOOL

1918-19

Schedule of Second Year. Third Trimester

HOURS	MONDAY	TUESDAY	WEDNESDAY	THURSDAY	FRIDAY	SATURDAY
9 to 10	Pediatrics Clinical Conference Pediatrics 1	Pediatrics Clinical Conference Pediatrics 1		Physical Diagnosis Medicine 4	Applied Anatomy Anatomy 9	Applied Anatomy Anatomy 9
10 to 11	Group A Medicine 6 Group B Surgery 2	Pathological Clinical Conference Pathology 5	Group A Medicine 6 Group B Surgery 2		Group A Medicine 6 Group B Surgery 2	Gross Pathology Pathology 2
11 to 12	Group C Obstetrics 1	Obstetrics Recitation Obstetrics 1	Group C Medicine 9	Propaedeutic Clinic Medicine 6	Group C Obstetrics 1	
12 to 1	Surgery Recitation Surgery 2	Surgery Clinic Surgery 2	Medicine Recitation Medicine 6	Surgery Conference Surgery 2	Medicine Recitation Medicine 6	Pharmacology Lecture Pharmacology 1
2 to 3	Pharmacology Lecture Pharmacology 1	Pharmacology	Pharmacology Lecture Pharmacology 1	Pharmacology	Pharmacology Lecture Pharmacology 1	
3 to 4		Laboratory	Surgical Pathology	Laboratory		
4 to 5		Pharmacology 1	Surgery 3	Pharmacology 1		

WASHINGTON UNIVERSITY MEDICAL SCHOOL

1918-19

Schedule of Third Year. First Trimester

HOURS	MONDAY	TUESDAY	WEDNESDAY	THURSDAY	FRIDAY	SATURDAY
9 to 10	Pediatrics Clinical Conference Pediatrics 1	Neurology Medicine 9	Gynecology Obstetrics 2	Physical Diagnosis	Obstetrics Recitation Obstetrics 1	Pediatrics Clinical Conference Pediatrics 1
10 to 11	Group B Medicine 6 Group C Surgery 2	Pathological Clinical Conference Pathology 5	Group B Medicine 6 Group C Surgery 2	Medicine 4a	Group B Medicine 6 Group C Surgery 2	Neuro-Pathology Medicine 9
11 to 12	Group A Obstetrics 1	Obstetrics Recitation Obstetrics 1	Group A Medicine 9	Propaedeutic Clinic Medicine 6	Group A Obstetrics 1	
12 to 1	Surgery Recitation Surgery 2	Surgery Clinic Surgery 2	Medicine Recitation Medicine 6	Surgery Conference Surgery 2	Medicine Recitation Medicine 6	Preventive Medicine
2 to 3	Preventive Medicine		Clinical Microscopy Medicine 5	Lecture Clinical Microscopy Medicine 5	Clinical Microscopy Medicine 5	
3 to 4	Surgical Pathology			Social Service		
4 to 5	Surgery 3					

WASHINGTON UNIVERSITY MEDICAL SCHOOL

1918-19

Schedule of Third Year. Second Trimester

HOURS	MONDAY	TUESDAY	WEDNESDAY	THURSDAY	FRIDAY	SATURDAY
9 to 10	Pediatrics Clinical Conference Pediatrics 1	Pediatrics Clinical Conference Pediatrics 1	Gynecology Obstetrics 2	Physical Diagnosis Medicine 4a Propaedeutic Clinic Medicine 6	Obstetrics Recitation Obstetrics 1	Neurology Medicine 9
10 to 11	Group C Medicine 6 Group A Surgery 2	Pathological Clinical Conference Pathology 5	Group C Medicine 6 Group A Surgery 2		Group C Medicine 6 Group A Surgery 2	Genito-Urinary Surgery Lecture Surgery 2
11 to 12	Group B Obstetrics 1	Obstetrics Recitation Obstetrics 1	Group B Medicine 9		Group B Obstetrics 1	Therapeutics Medicine 7a
12 to 1	Surgery Recitation Surgery 2	Surgery Clinic Surgery 2	Medicine Recitation Medicine 6	Surgery Conference Surgery 2	Dietetics Medicine 8	Preventive Medicine
2 to 3	Dermatology Lecture	Therapeutics Medicine 7a	Ophthalmology Lecture		Operative Surgery Surgery 2	
3 to 4	Surgical Pathology	Laryngology Lecture				
4 to 5	Surgery 8					

WASHINGTON UNIVERSITY MEDICAL SCHOOL

1918-19

Schedule of Third Trimester of Third Year and First and Second Trimesters of Fourth Year. Group A., Third Trimester; Group B., First Trimester; Group C., Second Trimester.*

HOURS	MONDAY	TUESDAY	WEDNESDAY	THURSDAY	FRIDAY	SATURDAY
9 to 12	<p>Medicine 10. Ward Work, Barnes Hospital.</p> <p>Medicine 11. Neurological Ward and Out Patient Work.</p>					
12 to 1	Neurology Medicine 11	Surgery Clinic Surgery 4	Pediatric Clinic Pediatrics 3	Medicine Clinic Medicine 10	Obstetrics Lecture Obstetrics 3 I and II Trimesters	Medicine Clinic Medicine 10
2 to 3	Dermatology O. P. D.	Dermatology O. P. D.	Psychiatry Medicine 12 III Trimester		Dermatology O. P. D.	
3 to 4						
4 to 5	Surgery Lecture Surgery 4	Medical Jurisprudence I and II Trimesters		Otology Lecture III Trimester	Ophthalmological Pathology III and I Trimesters	

*Students who enter the School after the completion of their second year without credit for the clinical work given in this School will, in the third trimester of the third year, follow the schedule of the third trimester of the second year except that, in place of Pharmacology, they will take the afternoon work of the third trimester of the third year.

WASHINGTON UNIVERSITY MEDICAL SCHOOL

1918-19

Schedule of Third Trimester of Third Year and First and Second Trimesters of Fourth Year. Group B., Third Trimester; Group C., First Trimester; Group A., Second Trimester.*

HOURS	MONDAY	TUESDAY	WEDNESDAY	THURSDAY	FRIDAY	SATURDAY
9 to 12	<p>Surgery 4. Ward Work, Barnes or St. Louis Children's Hospital.</p> <p>Surgery 6. Orthopedic Surgery, Barnes or St. Louis Children's Hospital.</p>					
12 to 1		Surgery Clinic Surgery 4	Pediatric Clinic Pediatrics 3	Medicine Clinic Medicine 10	Obstetrics Lecture Obstetrics 3 I and II Trimesters	Medicine Clinic Medicine 10
2 to 3	Otolaryngology O. P. D.		Psychiatry Medicine 12 III Trimester	Otolaryngology O. P. D.		
3 to 4						
4 to 5	Surgery Lecture Surgery 4	Medical Jurisprudence I and II Trimesters		Otolaryngology Lecture III Trimester	Ophthalmological Pathology III and I Trimesters	

*Students who enter the School after the completion of their second year without credit for the clinical work given in this School will, in the third trimester of the third year, follow the schedule of the third trimester of the second year except that, in place of Pharmacology, they will take the afternoon work of the third trimester of the third year.

WASHINGTON UNIVERSITY MEDICAL SCHOOL

1918-19

Schedule of Third Trimester of Third Year and First and Second Trimesters of Fourth Year. Group C., Third Trimester; Group A., First Trimester; Group B., Second Trimester.*

HOURS	MONDAY	TUESDAY	WEDNESDAY	THURSDAY	FRIDAY	SATURDAY
9 to 10	Section 1. Obstetrics 3 and 4. Ward Work, Barnes Hospital: 9-12 daily. Section 2. Pediatrics 2, Ward Work, St. Louis Children's Hospital: 9-10, Monday, Wednesday and Saturday—9-12, Tuesday, Thursday and Friday. Sections change at the middle of the trimester. Genito-Urinary Surgery is taken by Section 2.					
10 to 11	Genito-Urinary O. P. D. Surgery 5		Genito-Urinary O. P. D. Surgery 5			Genito-Urinary O. P. D. Surgery 5
11 to 12						
12 to 1		Surgery Clinic Surgery 4		Medicine Clinic Medicine 10	Obstetrics Lecture Obstetrics 3 I and II Trimesters	Medicine Clinic Medicine 10
2 to 3	Ophthalmology O. P. D.	Laryngology O. P. D.	Psychiatry Medicine 12 III Trimester	Ophthalmology O. P. D.	Laryngology O. P. D.	
3 to 4						
4 to 5	Surgery Lecture Surgery 4	Medical Jurisprudence I and II Trimesters		Otology Lecture III Trimester	Ophthalmological Pathology III and I Trimesters	

*Students who enter the School after the completion of their second year without credit for the clinical work given in this School will, in the third trimester of the third year, follow the schedule of the third trimester of the second year except that, in place of Pharmacology, they will take the afternoon work of the third trimester of the third year.

WASHINGTON UNIVERSITY MEDICAL SCHOOL

1918-19

Schedule of Fourth Year. Third Trimester

Students who complete the course in accordance with the regular schedule will have the third trimester of the fourth year available for elective work; during this trimester credit must be gained for a minimum of 300 hours of elective work, 150 of which must be done in some one department.

Students who enter the School after the completion of their second year without credit for the clinical work given in this School in the third trimester of the second year will complete the required work of the fourth year during the mornings of this trimester. The afternoons of the third trimester of the fourth year will be available for elective work; during this trimester credit must be gained for a minimum of 75 hours of elective work which may be taken in not more than two subjects.

Choice of elective courses is subject to the approval of the head of the department in which the work is to be done.

OFFICERS' SCHOOLS OF ORAL, PLASTIC AND NEURO-
LOGICAL SURGERY, AND OF SYPHILIS, SKIN
AND VENEREAL DISEASES, AND
GENITO-URINARY SURGERY

In response to a call from the office of the Surgeon General of the Army two special graduate schools for training members of the Medical Reserve Corps were organized in St. Louis during the present academic year. Washington University Medical School, the facilities of which had been offered the Government, was chosen for headquarters. Officers of the Medical Reserve selected by the Surgeon General were assigned for attendance at these Schools. The nature and extent of the courses given, and the personnel of the staff of instructors are indicated in the following copies of the schedules.

The School of Oral and Plastic Surgery was planned by Major V. P. Blair, of Washington University, as part of the programme for organizing and training groups of surgeons and dentists for service in field and base hospitals. The scope of training was afterwards increased by the addition of a course of lectures and clinical demonstrations in Surgical Neurology. The School of Syphilis, Skin and Venereal Diseases and Genito-Urinary Surgery was established somewhat later in the year. One hundred and seventy-five officers have been, up to the present time, in attendance in these two Schools.

Officers' School of Oral, Plastic and Neurological Surgery

Robert J. Terry, *Dean*

Hanau W. Loeb, *Chairman Curriculum Committee*

Ernest Sachs, *Secretary*

SYNOPSIS OF THE COURSE OF STUDY

Anatomy

(a) Dissection (Surgeons). 35 hours. R. J. Terry, Marsh Pitzman, F. J. Tainter.

(b) Demonstrations. 12 hours. D. M. Schoemaker.

- (c) Surgical Anatomy. 4 hours. P. Y. Tupper.
- (d) Nervous System. 10 hours. R. J. Terry, D. M. Schoemaker, A. G. Pohlman.

Infectious Processes About the Mouth, Face and Neck

- (a) Oral and Peridental Infections. 3 hours. G. E. Hourn, E. P. Brady.
- (b) Infections of Soft Tissues and Bone. 2 hours. Ernest Sachs.
- (c) Infections of the Maxillary Antrum. 1 hour. Greenfield Sluder.
- (d) Salivary Infections and Fistula. 1 hour. Carroll Smith.

Wounds and Other Injuries

Two hours. Ernest Sachs.

Fractures

Diagnosis and Treatment of Recent and Old Fractures. 2 hours. W. T. Coughlin.

Splints; Making and Application of Special Forms

- (a) Dentists. 30 hours. W. F. Neuhoff.
- (b) Surgeons. 3 hours. J. H. Kennerly, W. F. Neuhoff.

Operative Course

- (a) Plastic Methods on the Cadaver. Lectures, 5 hours; laboratory, 15 hours. W. T. Coughlin, Meyer Wiener, Joseph Beck, Ellis Fischel.
- (b) Blood Transfusion and Bone Grafting. Lecture, 1 hour; laboratory, 6 hours. Barney Brooks.
- (c) Operations on the Nervous System. 9 hours. Ernest Sachs.

Anaesthesia

Three hours. Ellis Fischel.

Post-Operative Care

- (a) Ward Work. 2 hours. O. R. Sevin.
- (b) Mechanico-Therapeusis. 2 hours. F. H. Ewerhardt.

Roentgenology

Two hours. Sherwood Moore and Ernest Sachs.

Clinical Demonstrations

Twelve hours. V. P. Blair, W. T. Coughlin, Ellis Fischel, A. O. Fisher, John Kennerly, Ernest Sachs.

Extraction of Teeth

Four hours. G. B. Winter.

Seminar

Fourteen hours. Ernest Sachs and others.

Neuro-Pathology

- (a) Lectures and Demonstrations. 4 hours. M. T. Burrows.
- (b) Autopsies. 3 hours. Ralph L. Thompson.

Physiology of the Nervous System

Lectures and Demonstrations. 12 hours. Joseph Erlanger, Robert Gesell.

Clinical Neurology

- (a) Lectures, Dispensary and Ward Work. 70 hours. Ernest Sachs, Frank R. Fry, M. A. Bliss, W. W. Graves, Michael Kasak.
- (b) Operative Clinic. Ernest Sachs.
- (c) Eye and Ear. 14 hours. Meyer Wiener, H. W. Lyman.

**School of Syphilis, Skin and Venereal Diseases,
and Genito-Urinary Surgery**

Under the direction of Drs. Martin F. Engman and John R. Caulk
Ernest Sachs, *Secretary*

SYNOPSIS OF THE COURSE OF STUDY

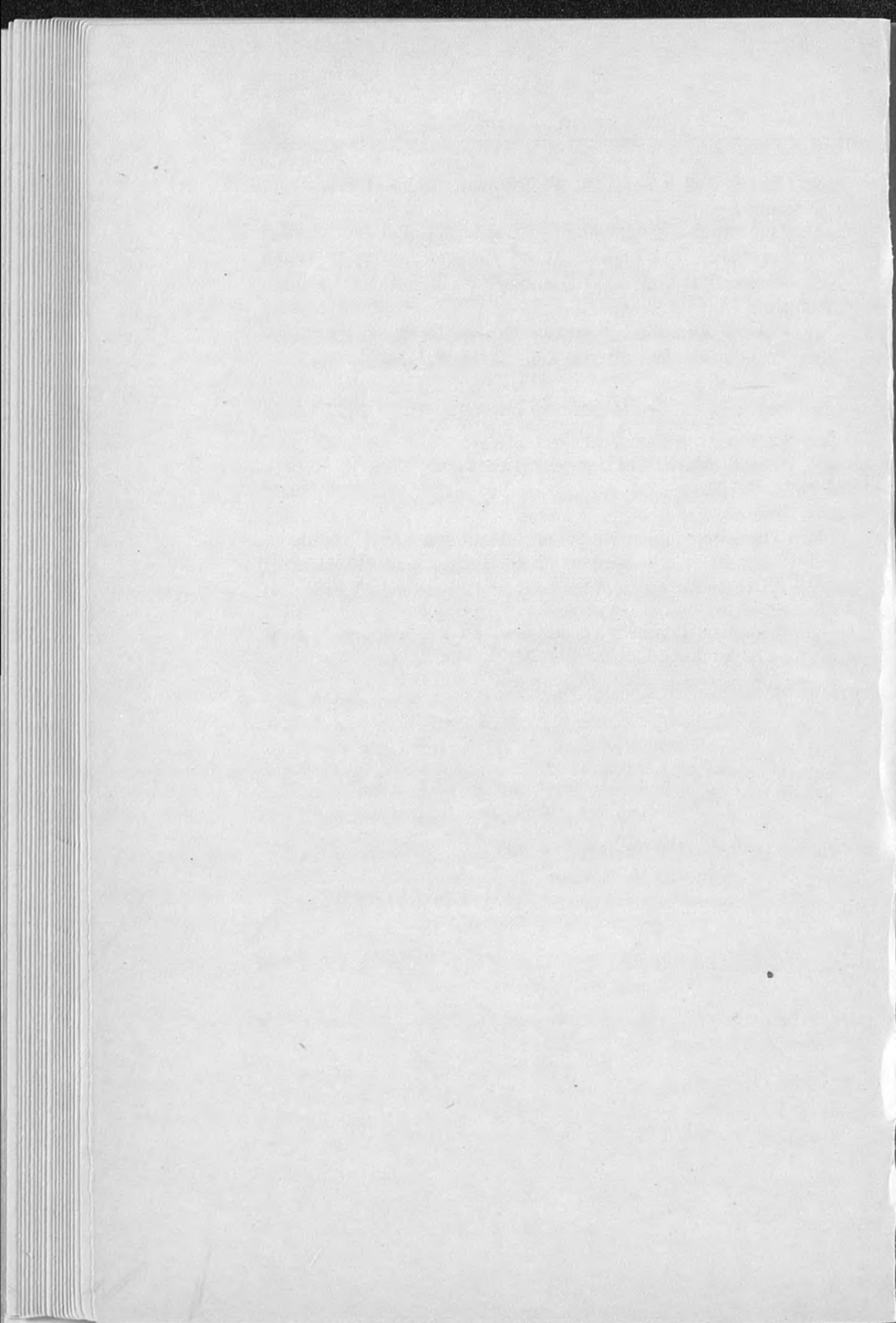
Syphilis and Skin Diseases

- (a) Lectures. 6 hours. M. F. Engman.
- (b) Laboratory Work. 6 hours. George Ives.

- (c) Clinics. 22 hours. M. F. Engman, Richard Weiss, and A. H. Conrad.
- (d) Vein Puncture. 6 hours. A. H. Conrad.
- (e) Treatment. 14 hours. M. F. Engman and V. V. Wood.
- (f) Lumbar Puncture and Laboratory Examinations. 4 hours. R. Buhman.
- (g) Visceral Syphilis. 2 hours. George Dock.
- (h) Syphilis of Nervous System. 2 hours. M. Kasak.

Genito-Urinary Diseases

- (a) Anatomy. 6 hours. Forest Staley.
- (b) Clinical Work. 32 hours. J. R. Caulk, Wm. R. Robertson, H. G. Greditzer.
- (c) Clinical Microscopy. 4 hours.
- (d) Laboratory Operative Work. 11 hours. J. R. Caulk.
- (e) Cystoscopy, Ureteral Catheterization and X-Ray. 6 hours. J. R. Caulk, H. G. Greditzer, and Sherwood Moore.
- (f) Operative Clinics. 11 hours. J. R. Caulk.
- (g) Transfusion and Post-operative Care. 3 hours. J. R. Caulk and O. R. Sevin.
- (h) Lectures. 5 hours. J. R. Caulk.



Washington University

Frederic A. Hall, A.M., Litt.D., L.H.D., LL.D., Chancellor

- I. The College (Skinker road and Lindell boulevard)
George O. James, Ph.D., Dean
- II. The School of Engineering (Skinker road and Lindell boulevard)
Alexander S. Langsdorf, M.M.E., Dean
- III. The School of Architecture (Skinker road and Lindell boulevard)
Alexander S. Langsdorf, M.M.E., Dean
- IV. The School of Commerce and Finance
(Skinker road and Lindell boulevard)
William F. Gephart, Ph.D., Dean
- V. The Henry Shaw School of Botany (Shenandoah and Tower Grove avenues)
George T. Moore, Ph.D., Engelmann Professor of Botany
- VI. The Law School (Skinker road and Lindell boulevard)
Richard L. Goode, A.M., LL.D., Dean
- VII. The Medical School (Kingshighway and Euclid avenue)
Philip A. Shaffer,* Ph.D., Dean
G. Canby Robinson, M.D., Acting Dean
- VIII. The Dental School (Twenty-ninth and Locust streets)
John H. Kennerly, M.D., D.D.S., Dean
- IX. The School of Fine Arts (Skinker road and Lindell boulevard)
Edmund H. Wuerpel, Director

The following schools are also conducted under the charter of the University:

- Mary Institute—A Preparatory School for Girls (Waterman and Lake avenues)
Edmund H. Sears, A.M., Principal
- The Training School for Nurses (600 S. Kingshighway)
Julia C. Stimson, A.M.,* Superintendent
Helen L. Bridge, B.S., Acting Superintendent

* On leave of absence.

